Call for Papers

The 2011 International Conference on Advances in Experimental Mechanics: Integrating Simulation and Experimentation for Validation (ISEV) will be the first joint venture between the British Society for Strain Measurement (BSSM) and the Society for Experimental Mechanics, USA (SEM).

The conference will offer industry and academia the opportunity to present current developments in experimental mechanics at the prestigious venue of the Royal College of Physicians in Edinburgh.
**Conference highlights**

**Keynote lectures**
Prof. Wolfgang Osten
Director of the Institute for Applied Optics (ITO), University of Stuttgart, Germany:
‘What optical metrology can do for experimental mechanics? A re- and perspective view’

Prof. Guruswami Ravichandran
California Institute of Technology, USA:
‘3D Traction Force Microscopy and Mechanotransduction’

**The BSSM Measurements Lecture:**
Prof. Janice Dulieu-Barton
University of Southampton, UK:
‘Measurement of thermomechanical coupling and its application in stress and damage analysis’

**Other highlights include**

**EMex**, the BSSM’s annual Exhibition of Experimental Mechanics. EMex is the premier UK exhibition for manufacturers and suppliers of strain measurement and stress analysis equipment. The exhibition will take place on the middle day of the conference. For further details please visit www.bssm.org/emex11

**Conference themes**

Papers are welcomed from any area of experimental mechanics within the theme of integrating simulation and experimentation for validation, including the following:

- Fatigue studies and determination of remnant life
- Fracture and damage assessment
- Full field stress and strain measurement techniques
- Full-scale testing
- High temperature stress and strain measurement
- Impact behaviour of materials and structures
- Measurements at the micro- and nano-scale
- Mechanical characterisation of biomaterials
- Mechanical characterisation of fibre reinforced materials
- Non-destructive evaluation of damage
- Remote sensing
- Residual stress
- Strain gauge applications
- Structural health monitoring
- Vibration-based characterisation techniques

**Conference Fees** *(VAT is not applicable)*

<table>
<thead>
<tr>
<th>Full conference:</th>
<th>£425 members</th>
<th>£475 non-members</th>
</tr>
</thead>
<tbody>
<tr>
<td>- includes refreshments, drinks reception, lunches, conference dinner and proceedings.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Student rate:</th>
<th>£245 members</th>
<th>£295 non-members</th>
</tr>
</thead>
<tbody>
<tr>
<td>- includes refreshments, drinks reception, lunches, conference dinner and proceedings.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Exhibition Fees** *(VAT is not applicable)*

| Corporate 1 Members | Free | £230 |
| Corporate 2 Members | £185 | £355 |
| Non-members | £355 | £450 |

<table>
<thead>
<tr>
<th>Exhibition and delegate</th>
<th>Exhibition only</th>
</tr>
</thead>
<tbody>
<tr>
<td>£230</td>
<td>£355</td>
</tr>
</tbody>
</table>

**Co-Sponsors**

- [BSSM Young Stress Analyst Competition](www.bssm.org/ysa11)

- [www.bssm.org/conf2011](www.bssm.org/conf2011)
Scientific Committee

Prof. Anand Asundi, Nanyang Technological University, Singapore.
Prof. Douglas Adams, Purdue University, USA.
Dr. Eric Brown, Los Alamos National Laboratory, USA.
Dr. John A. Cafro, General Motors, USA.
Prof. Terry Chen, National Cheng Kung University, Taiwan.
Prof. Jaime Dominguez, University of Seville, Spain.
Prof. Janice Duke-Barton, University of Southampton, UK.
Prof. Josef Eberhardsteiner, Vienna University of Technology, Austria.
Prof. Jose Freire, Pontifical Catholic University of Rio de Janeiro, Brazil.
Prof. Shiyan Fu, Shanghai Jiao Tong University, China.
Prof. Emmanuel Gidouets, Democritus University of Thrace, Greece.
Prof. Michel Grediac, Blaise Pascal University, France.
Dr. Erwin Hack, EMPA, Switzerland.
Prof. Xiaoyuan He, Southeast University, Nanjing, China.
Prof. Jan Hurstley, Loughborough University, UK.
Prof. Peter Ifju, University of Florida, USA.
Prof. Daniel J. Irwin, Virginia Polytechnic Institute & State University, USA.
Prof. Pierre Jacquot, EPFL, Switzerland.
Prof. Rhys Jones, Monash University, Australia.
Prof. Malgorzata Kupawańska, Warsaw University of Technology, Poland.

Organising Committee:

Prof. Margaret Lucas, University of Glasgow (co-Chair)
Prof. Eann A. Patterson, Michigan State University (co-Chair)
Dr Richard Burguete, Airbus
Dr Simon Quinn, University of Southampton
Dr Kristin B. Zimmerman, General Motors
Prof. Wei-Chung Wang, National Tsing Hua University
John Edwards, BSSM
Biana Gale, BSSM

Conference Secretariat

John Edwards, British Society for Strain Measurement, 22 St Georges Road, Bedford, MK40 2LS
Telephone/Fax: +44(0) 1234 347778
E-mail: johnedwards@bssm.org

British Society for Strain Measurement.
Tel: +44(0) 1234 347778 email: info@bssm.org