

Symposium

“Dynamic Aspects of Mechanics of Deformation and Fracture”

*International Conference
on Computational and Experimental Engineering & Sciences
ICCES'12
Crete, Greece, 30 April - 4 May 2012*

The aim of this Symposium is to bring together specialists in mechanics of materials, applied mathematics, physics, continuum mechanics, materials science as well as various branches of engineering to discuss advances in experimental analysis and numerical simulations of dynamic mechanical phenomena.

The topics of the Symposium include, but are not limited to, the following:

- high-strain rate loading and deformation;*
- dynamic fracture;*
- impact and blast loading;*
- high-speed penetration;*
- impact fatigue;*
- damping properties of advanced materials;*
- thermomechanics of dynamic loading;*
- stress waves in microstructured materials;*
- simulation of failure mechanisms and damage accumulation processes in materials under dynamic loading;*
- response of components and structures to harsh environment;*
- improving the resistance of materials to high-rate mechanical loading.*

The materials of interest range from traditional ones such as metals, alloys, ceramics, polymers and composites to advanced and emerging materials as well as bio-materials.

Symposium Organizer:

Professor Vadim V. Silberschmidt

Head, Mechanics of Advanced Materials Research Group

Loughborough University, UK (e-mail V.Silberschmidt@lboro.ac.uk)