

The  
Multi-scale Mechanics and Multi-physics of Materials Lab  
organizes the  
International workshop:

**Advances in the mechanical modeling of  
materials and structures**

University of Brescia  
DICATAM  
Aula riunioni  
30 June 2015

# Schedule:

9:00	S. Mogilevskaya	University of Minnesota at Minneapolis	Lost in Translation: Crack Problems in Different Languages
9:40	R. Citarella	Università di Salerno	Simulation of crack propagation in turbine blades by FEM-DBEM approach.
10:00	F. Baldi	Università di Brescia	Fracture mechanics in the research activities of the Materials Science and Technology Group of DIMI
10:15	A. Salvadori	Università di Brescia	Three dimensional fracture growth as a standard dissipative system: some general theorems and numerical simulations
10:30	A. Colombi	Imperial College London	Locally resonant metamaterials for controlling seismic waves. Some recent experimental and numerical results
11:10	L. Bardella	Università di Brescia	Modeling the torsion of thin metal wires by distortion gradient plasticity
11:25	D. Grazioli	Università di Brescia	Multi-physics process modeling of Li-ion battery cells
11:40	M. Magri	Università di Brescia	On modeling Hydrogen diffusion and embrittlement in metals
11:55	A. Panteghini	Università di Brescia	The "I3" generalization of the Galileo-Rankine tension criterion
12:10	L. Banks Sills	Tel Aviv University Visiting Professor, Università di Brescia	Delamination toughness and fatigue propagation tests in multi-directional woven composite