
Plenary Lectures - Mathematics

- 1 Moritz Diehl** (Freiburg, Germany)
Nonlinear optimal control for airborne wind energy systems
- 2 Giovanni Galdi** (Pittsburgh, Pennsylvania)
Liquid-solid interactions: some new results and open questions
- 3 Daniel Kressner** (Lausanne, Switzerland)
Low rank techniques for high-dimensional problems in engineering and data-analysis
- 4 Enrique Zuazua** (Bilbao, Spain)
Optimal placement of sensors and actuators for waves in homogeneous and heterogeneous media

Plenary Lectures - Mechanics

- 1 Nikolaus Adams** (München, Germany)
Particle methods for complex flows of complex fluids
- 2 Ferdinando Auricchio** (Pavia, Italy)
Shape memory alloys: from recent modeling proposals to cardiovascular device simulations
- 3 Thomas Böhlke** (Karlsruhe, Germany)
Micromechanics based modelling of applied materials
- 4 Stanislaw Stupkiewicz** (Warsaw, Poland)
Interfacial energy and size effects in evolving martensitic microstructures

Special Lectures

Ludwig Prandtl Memorial Lecture

Keith Moffatt (Cambridge, UK)

Discontinuities and topological jumps in slowly evolving vortical flows

Public Lecture

Francesco D'Andria (Lecce, Italy)

Do the Gates to the Hell really exist?