

## Scientific Program

On the following pages the contents of the scientific program of the Congress are listed. The program consists of plenary opening and closing lectures, sectional lectures, G.K. Batchelor Prize Lecture, Rodney Hill Prize Lecture, six mini-symposia, and forty-six pre-nominated sessions devoted to all aspects of mechanics.

- OL Opening Lecture
- CL Closing Lecture
- BL G.K. Batchelor Prize Lecture
- RL Rodney Hill Prize Lecture
- SL Sectional Lecture

### Mini-symposia

- MS01 Mechanical challenges in energy
- MS02 Mechanics of natural disasters
- MS03 Fluid-structure interactions in biological systems
- MS04 Mechanics of transport in microfluidic devices
- MS05 Dynamics and control of morphing structures
- MS06 Effects of small size scales in materials modeling

### Pre-Nominated Sessions on Fluid Mechanics

- FM01 Biological fluid dynamics
- FM02 Boundary layers
- FM03 Combustion and flames
- FM04 Compressible flow
- FM05 Convection
- FM06 Drops, bubbles and multiphase flows
- FM07 Flow instability and transition
- FM08 Flow in thin films
- FM09 Geophysical and environmental fluid dynamics
- FM10 Low Reynolds number flow
- FM11 Magnetohydrodynamics
- FM12 Non-Newtonian and complex fluids
- FM13 Stirring and mixing
- FM14 Turbulence
- FM15 Vortex dynamics (In memory of Hassan Aref and Slava Meleshko)
- FM16 Waves in fluids
- FM17 General fluid mechanics

**Pre-Nominated Sessions on Solid Mechanics**

- SM01 Biomechanics and biomaterials
- SM02 Contact and friction mechanics
- SM03 Damage mechanics
- SM04 Elasticity
- SM05 Fracture mechanics
- SM06 Geophysics and geomechanics
- SM07 Impact mechanics and wave propagation
- SM08 Mechanics of multi-component materials and composites
- SM09 Mechanics of phase transformations
- SM10 Mechatronics
- SM11 Multibody and vehicle dynamics
- SM12 Nanostructures and MEMS
- SM13 Plasticity, viscoplasticity and creep
- SM14 Stability of structures
- SM15 Structural optimization (Co-sponsored by ISSMO)
- SM16 Vibrations and control of structures
- SM17 General solid mechanics

**Topics Involving Both Fluid and Solid Mechanics**

- FS01 Acoustics
- FS02 Computational methods in mechanics
- FS03 Experimental methods in mechanics
- FS04 Chaos and pattern formation
- FS05 Electro- and magnetomechanical systems
- FS06 Fluid structure interactions
- FS07 Smart materials
- FS08 Granular materials and flows
- FS09 Mechanics of materials processing
- FS10 Porous media
- FS11 Foams and cellular materials
- FS12 Education in mechanics

The description of the session consists of the session ID, the descriptive name of the session (e.g. “Mechanical challenges in energy”) and the list chair (or chairs) of the session. The list of contributions then follows and ordered as in the congress program.

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