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Advanced Composite Materials

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Announcement

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Announcement

TWELFTH INTERNATIONAL CONFERENCE ON MECHANICS OF COMPOSITE MATERIALS

June 9–13, 2002, Riga, Latvia

Organizing Latvian institutions

- Institute of Polymer Mechanics
- Latvian Academy of Sciences
- Latvian Council of Science
- Latvian National Committee for Mechanics
- University of Latvia
- Riga Technical University
- The journal *Mechanics of Composite Materials*
- Scientific Enterprise Lakomp

Main conference themes

(as a guideline for prospective contributors)

- 1. Structure and Properties:** properties of polymeric, metallic, ceramic matrices; properties of fillers, nano-particles and reinforcing fibres; organic and natural fibres.
- 2. Long-Term Deformational Properties and Durability:** long-term properties, creep and ageing; environmental effects; prediction of long-term deformations.
- 3. Strength, Fracture, Damage, and Fatigue:** delamination of laminates; measurements of fracture toughness; interaction and sequence of inter- and intralaminar damage and failure in composites; prediction of fatigue life time, accelerated tests; fatigue under complex loading history.
- 4. Structures:** methods of optimization of composite structures; sandwich structures and their joints; intelligent systems; active and passive control systems; damage monitoring in structures, seismic structures.
- 5. Nondestructive Testing (NDT):** NDT and nondestructive evaluation (NDE); fundamental and applied research in NDT and NDE; quantitative nondestructive evaluation (QNDE); NDE in relation to structural integrity; NDT signal and image processing.
- 6. Mechanical Aspects of Technology:** resin infusion processes; flow of nonlinear polymer melts in porous media; recycling of advanced composites.

Microsymposia

- Composites in Civil Engineering and Infrastructure.
- Mechanics of Nanocomposites.

The Scientific Programme will include invited plenary papers, session, and poster contributions. The Conference Programme will be mailed not later than April 1, 2002.

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