



NINTH ALL-RUSSIA CONGRESS ON THEORETICAL AND APPLIED MECHANICS†

The Russian National Committee on Theoretical and Applied Mechanics, together with the Institute of Problems of Mechanics of the Russian Academy of Sciences, the N. I. Lobachevskii Nizhnii Novgorod State University and the Nizhnii Novgorod State Technical University, with the participation of the Russian Federal Nuclear Centre of the All-Russia Scientific Research Institute of Experimental Physics, the Institute of Applied Physics of the Russian Academy of Sciences and the I. I. Afrikantov Machine Construction OKB, with the support of the staff of the plenipotentiary of the President of the Russian Federation in the Privolzhsk Federal district and the Administration of the Nizhnii Novgorod region, is holding in the **Ninth All-Russia Congress on Theoretical and Applied Mechanics** on the 22–28 August 2006 in Nizhnii Novgorod.

The work of the congress will be in the following three sections.

I. General and applied mechanics.

II. Fluid mechanics.

III. Mechanics of deformable bodies.

The first section will include the following subsections.

I – 1. Analytical mechanics and the stability of motion.

I – 2. Control and optimization in mechanical systems.

I – 3. Vibrations in mechanical systems.

I – 4. Mechanics of systems of rigid and deformable bodies.

I – 5. Mechanics of space flight.

The second section will include the following subsections.

II – 1. General and applied hydrodynamics.

II – 2. General and applied gas dynamics.

II – 3. Hydrodynamic instability and turbulence.

II – 4. Physicochemical hydro and gas dynamics.

II – 5. Hydro and gas dynamics of multiphase media.

II – 6. Motion of media with complex rheology.

The third section will include the following subsections.

III – 1. Theory of elasticity and viscoelasticity.

III – 2. Theory of plasticity and creep.

III – 3. Waves in continua.

III – 4. Fracture and damage mechanics.

III – 5. Mechanics of structures.

III – 6. Non-classical models of the mechanics of deformable bodies.

III – 7. Mechanics of contact interactions.

Furthermore, four complex subsections will run within the framework of the congress.

IV – 1. Biomechanics.

IV – 2. Problems of the mechanics of natural processes.

IV – 3. Teaching and the history of mechanics.

In the sectional sessions, commissioned papers will be presented, and in the subsectional sessions, papers in oral and stand form that have been selected by the Organizing Committee will be presented. Official applications to submit papers will be accepted by the Organizing Committee no later than

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1 February 2006 by email (congrmech@mech.unn.ru) and by normal post (Organizing Committee, Ninth All-Russia Congress of Theoretical and Applied Mechanics, Scientific Research Institute of Mechanics, Nizhii Novgorod State University, pr. Gagarina, 23, korp. 6, 603950, Nizhnii Novgorod). Electronic and hard copies of applications are required.

An application form and other information about the congress can be found on our website www.ruscongrmech.2006.ru. Information about the congress can also be obtained by telephone: +7 (8312)65-65-02.