

JUNE 20, WEDNESDAY

Room A

*Morning Session*

CHAIRPERSON D.A. INDEITSEV

**9:30–9:40 OPENING CEREMONY**

**9:40–10:20 A.K. Belyaev.** 20 years of the Institute of Problems in Mechanical Engineering. Past, Present and Future

**10:20–11:00 H. Irschik.** Generation of transient desired displacement fields in force loaded solids and structures by smart actuation

**11:00–11:40 V.A. Babeshko, O.M. Babeshko, O.V. Evdokimova.** Materials of complex block structure

*Coffee break*

**12:00–12:40 E.V. Lomakin, B.N. Fedulov.** Plastic limit state of dilatant solids under conditions of plane strain

**12:40–13:20 H. Altenbach, K. Naumenko, B. Renner.** On the orientation of a rigid particle in a polymer suspension

**13:20–14:00 D.A. Indeitsev, V.N. Naumov, B.A. Semenov.** Dynamical effects in the material of complex structure

*Evening Session*

*Minisymposium “Molecular dynamics of nanostructures, physical and mechanical applications”*

CO-CHAIRPERSONS A.M. KRIVTSOV, M.A. MAZO

**15:30–16:00 M.A. Mazo, M.Yu. Shamaev, E.B. Gusarova, L.I. Manevitch, A.A. Berlin, N.K. Balabaev, G. Rutledge.** The Influence of Polymer Intercalation on Thermomechanical Properties of Montmorillonite Crystal via Molecular Dynamics Simulation

**16:00–16:30 A.Yu. Kuksin, G.E. Norman, V.V. Stegailov, A.V. Yanilkin.** Atomistic simulation of plasticity, spall damage and fracture of crystalline and polycrystalline metals under high strain rate

**16:30–16:40 A.Yu. Kuksin, G.E. Norman, V.V. Stegailov, A.V. Yanilkin.** Molecular dynamics simulations of plasticity and fracture in nanocrystalline copper

**16:40–16:50 A.Yu. Kuksin, G.E. Norman, V.V. Stegailov, A.V. Yanilkin.** Nucleation and growth of voids in modelling of crystal fracture

**16:50–17:00 A.Yu. Kuksin, G.E. Norman, V.V. Stegailov, A.V. Yanilkin.** Atomistic study of nanoprecipitates influence on plasticity and fracture of crystalline metals

**17:00–17:30 A.M. Krivtsov.** Modelling of thermomechanical behavior of solids at different scale levels using particles

**17:30–18:00 A.V. Bolesta, I.F. Golovnev, V.M. Fomin.** Molecular dynamics simulations of mechanical deformation in metallic heterostructure with free surfaces and interfaces

Room B

**18:00–19:00 Welcome party**

Room C

*Evening Session*

CHAIRPERSON V.A. EREMEEV

*Solids and structures*

**15:30–15:50 P. Tovstik.** On the asymptotic properties of the applied theories of beams, plates and shells

**15:50–16:10 H. Altenbach, W. Fischer.** Modelling of Chemical Shrinkage in Thermosets using Continuum Mechanics

**16:10–16:30 I. Sevostianov.** Explicit cross-property connections for materials with multiple inhomogeneities

*Break*

**16:40–17:00 V. Zalipaev.** Asymptotic boundary condition

**17:00–17:20 A.L. Svistkov, L.A. Komar.** Modeling of oriented polymer region formation in the vicinity of nanoparticle filler surface

**17:20–17:40 N. Kizilova.** Interaction of the steady flow of a viscous liquid with a multilayered distensible wall

**17:40–18:00 S. Lurie, P. Belov, D. Volkov-Bogorodskii, N. Tuckova.** Advanced model of adhesion interaction in continuum mechanics and some applications

JUNE 21, THURSDAY

Room A

*Morning Session*

CHAIRPERSON A.K. BELYAEV

**9:30–10:10 I.G. Goryacheva.** Effect of imperfect elasticity in sliding/rolling contact

**10:10–10:50 A. Cherkaev.** Optimal multiphase structures and bounds for their effective properties

*Break*

*Minisymposium “Mechanics of Materials with Internal Instabilities”*

CO-CHAIRPERSONS A.B. FREIDIN, L. TRUSKINOVSKY

**11:00–11:30 L. Truskinovsky.** Thermodynamics and dynamics of rate independent plasticity

**11:30–12:00 V. Kondaurov.** Thermodynamically consistent equations of porous medium

*Coffee break*

**12:20–12:50 M. Pitteri.** Beta-quartz as a multilattice

**12:50–13:20 P. Podio-Guidugli.** Thermodynamics of phase transitions due to atomic rearrangements

**13:20–13:50 C. LExcellent.** Continuous stress loading effect on the microstructure of shape memory alloys

*Evening Session*

*Minisymposium “Mechanics of Materials with Internal Instabilities”*

CO-CHAIRPERSONS A.B. FREIDIN, L. TRUSKINOVSKY

**15:30–16:00 L.V. Nikitin.** Dynamics of the solid to solid phase transformation

**16:00–16:30 S.N. Gavrillov, E.V. Shishkina.** Dynamic and quasi-static approaches to moving interfaces in an elastic bar with variable cross-section

**16:30–17:00 A. DiCarlo, L. Teresi.** Jumping over Ericksen’s bar

*Coffee break*

**17:20–17:50 V.A. Eremeyev.** Some problems of phase transitions in thin-walled structures

**17:50–18:20 S. Timan, M. Shamaev.** Macroscopic yield in porous polycrystalline polymer under macro-uniform loading

**18:20–18:40 V. Kucher.** Stability of Interfaces: Beyond the Weierstrass-Erdmann Necessary Conditions

Room B

*Morning Session*

*Minisymposium “Molecular dynamics of nanostructures, physical and mechanical applications”*

CO-CHAIRPERSONS A.M. KRIVTSOV, M.A. MAZO

**11:00–11:30 I.F. Golovnev, E.I. Golovneva, V.M. Fomin.** The thermomechanical behavior of nanostructures. The numerical modeling on the atomic level

**11:30–12:00 D.B. Zgonnik, G.N. Likhatskaya, M.A. Guzev.** Computer system for modelling of 3-dimensional organic molecular structures

*Coffee break*

**12:20–12:50 M.A. Guzev, A.A. Dmitriev, N.A. Permyakov.** Dependence of thermomechanical medium behavior on spatial averaging scale

**12:50–13:20 N.A. Kovaleva, L.I. Manevitch, A.V. Savin, M.A. Mazo, A.I. Musienko.** Topological defects in double helix of DNA: molecular dynamics

**13:20–13:50 L.I. Manevitch, V.V. Smirnov, M.A. Mazo, K.Yu. Kosevich, N.K. Balabaev.** Localized nonlinear excitations in carbon nanotubes: analytical study and computer simulation

*Evening Session*

*Minisymposium “Molecular dynamics of nanostructures, physical and mechanical applications”*

CO-CHAIRPERSONS A.M. KRIVTSOV, M.A. MAZO

**15:30–16:00 M.A. Mazo, E.B. Gusarova, L.I. Manevitch, A.A. Berlin, N.K. Balabaev, G.C. Rutledge.** Thermo-mechanical properties of montmorillonite crystals with PEO oligomers intercalates

**16:00–16:30 S. Antonyuk, P. Mueller, J. Tomas.** Stressing, mechanical behaviour and breakage of granules

**16:30–17:00 N.K. Balabaev, I.P. Borodin, T.N. Khazanovich.** Viscoelasticity of extended polymer chains: Theory and simulation

*Coffee break*

**17:20–17:40 I.E. Berinskiy.** Molecular dynamics modelling of high speed interaction of spallation and penetration processes

**17:40–18:00 A.A. Le-Zakharov, A.M. Krivtsov.** Simulation of heat propagation in monocrystal material with defects

**18:00–18:20 V. Kuzkin.** Microscopic derivation of Gruneisen parameter

**18:20–18:40 N. Dvas.** Stability analysis and determination of parameters for body-centered cubic crystal lattice

**18:40–19:00 O. Loboda.** Determination elastic properties of structures with complex crystal lattice(diamond). Scale effect in elastic properties

Room C

*Morning Session*

CHAIRPERSON D.INDEITSEV  
*Fluid and gas*

**11:00–11:20 N.N. Myagkov.** Hydrodynamic instability of the chemical oscillations

**11:20–11:40 A. Akhmetov, M. Marat, S. Sergey, R. Arthur.** The Blocking phenomena in flow of disperse system liquid-liquid in microchannels

**11:40–12:00 N.N. Smirnov, V.R. Dushin, V.F. Nikitin, J.C. Legros.** Instability in frontal displacement of viscous fluids from porous media

*Coffee break*

CHAIRPERSON H.IRSCHIK

*Dynamics of rigid bodies and multibody dynamics*

**12:20–12:40 B.A. Smolnikov, A.K. Belyaev.** Evolutional dynamics and stability of dissipative bodies

**12:40–13:00 T.V. Suvorova.** Efficiency forecast of supporting subsurface construction and durability of permanent way

**13:00–13:20 A.A. Tikhonov.** The integrable case in the problem of the satellite attitude motion

**13:20–13:40 L. Molotkov.** On peculiarities of wave field in transversely isotropic elastic medium

*Evening Session*

*Minisymposium “Dynamic interaction of flexible structures with solids and fluids”*

CHAIRPERSON A.V. METRIKINE

**15:30–16:00 Chen Yi, M.P. Cartmell.** Dynamical modelling of the MMET incorporating axial elastic effects

**16:00–16:30 A. Abramyan, S. Vakulenko.** A semi-empirical fluid force model for vortex induced vibration of elastic structure

**16:30–17:00 R.H.M. Ogink.** An Integro-Differential Wake Oscillator Model for the Description of Vortex-Induced Vibration

*Coffee break*

**17:20–17:50 M. Shamalta, A.V. Metrikine.** The method of multiple reflections for modeling soil vibration induced by underground trains

**17:50–18:20 J.S. Hoving, A.V. Metrikine, F. Molenkamp, A.C.W.M. Vrouwenvelder.** Discrete element modelling to describe nonlinear dynamic soil behaviour

**18:20–18:50 I.V. Sturova.** Effect of variable depth on time-dependent response of an elastic plate floating on shallow water

JUNE 22, FRIDAY

Room A

*Morning Session*

CHAIRPERSON M. CARTMELL

**9:30–10:10 V.N. Kukudzhanov.** Coupled models of elastoplasticity and damage and their integration

**10:10–10:50 M. Wiercigroch, M. Keber, C. Mazzilli, C. Sanchez.** Application of Nonlinear Normal Modes to Vibration of Vertical Offshore Risers

*Break*

*Minisymposium “Nonlinear Dynamics of Engineering Systems”*

CO-CHAIRPERSONS M. WIERCIGROCH, E. PAVLOVSKAYA

**11:00–11:20 P. Manneville.** New developments in the subcritical transition to turbulence in wall flows

**11:20–11:40 V. Serebryakov.** Compressibility Effects for Very High Sub-, Trans-, Supersonic Speeds Motion in Water

**11:40–12:00 P. Hall.** Inviscid breakdown of vortex structures

*Coffee break*

**12:20–12:40 N.P. Mehta, S.S. Rattan, R. Verma.** Comparative Evaluation of Transient Response of A Plain Hydrodynamic Journal Bearing With Couple Stress and Newtonian Lubricant

**12:40–13:00 D. Nicoara, D. Cotoros.** Dynamic Analysis and Optimization of Rotor Systems Having Non-linear Bearing

**13:00–13:20 S.O. Gladkov, R.G. Rabadanov.** On stochastic moving string

*Evening Session*

CHAIRPERSON I.I. BLEKHMEN

**15:30–16:10 P. Gaskell.** To be precised

*Break*

*Minisymposium “Nonlinear Dynamics of Engineering Systems”*

CO-CHAIRPERSONS M. WIERCIGROCH, E. PAVLOVSKAYA

**16:20–16:40 P. Perlikowski, A. Stefanski, T. Kapitaniak.** General, phase and complete synchronization in chaotic oscillators

**16:40–17:00 Q. Cao, M. Wiercigroch, E.E. Pavlovskaya.** Dynamics of Archetypal SD Oscillator

*Coffee break*

**17:20–17:40 E. Sitnikova, E. Pavlovskaya.** Nonlinear Dynamics of Pseudoelastic Oscillators

**17:40–18:00 I.D. Breslavsky, K.V. Avramov, Yu.V. Mikhlin.** Normal Modes Analysis of Snap-Through Motions of Shallow Arch

**18:00–18:20 A. Fenili.** Investigations on Friction Forces in Constrained Robots

**18:20–18:40 Van Du Nguyen, Ko-Choong Woo.** New and effective design of vibro-impact mechanism for underground moling

Room B

*Morning Session*

*Minisymposium “Mechanics of Materials with Internal Instabilities”*

CO-CHAIRPERSONS A.B. FREIDIN, L. TRUSKINOVSKY

**11:00–11:30 A. Cherkaev.** Rational approximation of effective properties, quasiconvexity, and pseudostructures

**11:30–12:00 Yu. Grabovsky, L. Truskinovsky.** On buckling of slender bodies with complex geometry

*Coffee break*

**12:20–12:40 M.I. Karyakin.** Instability phenomena in compressible nonlinearly elastic materials

**12:40–13:00 E.N. Vilchevskaya, A.B. Freidin.** On multiple appearance of new phase ellipsoidal inclusions in elastic solids

**13:00–13:30 A.B. Freidin, M.A. Antimonov, L.L. Sharipova, R.A. Filippov.** Equilibrium stability and kinetics of two-phase deformations

**13:30–14:00** Round table

*Evening Session*

CHAIRPERSON A. SERGEEV

*Mechanical and civil engineering applications*

**16:20–16:40 M.P. Morales.** Influence of concretes mineralogical components on fracture compressive and tractive

**16:40–17:00 K.L. Muratkov, A.L. Glazov.** Modification of photoacoustic thermoelastic images of indented areas in metals under external loading

*Coffee break*

**17:20–17:40 A. Loktev.** Transverse impact of heated solid body on the orthotropic plate

**17:40–18:00 M. Pande, S. Jog.** Failure analysis of turbine blade

**18:00–18:20 G. Iovane, A. Nasedkin.** New model for piezoelectric materials with voids and application for analysis of piezoelectric devices with units from porous piezoceramics

JUNE 23, SATURDAY

Room A

Room B

**Excursion to Peterhoff**

JUNE 24, SUNDAY

Room A

*Morning Session*

CHAIRPERSON A.M. KRIVTSOV

**9:30–10:10 H.L. Duan, J. Wang, B.L. Karihaloo.** Nano-mechanics or how to extend continuum mechanics to nano-scale

**10:10–10:50 A. Movchan, G. Mishuris, A. Piccolroaz.** Weight functions and singular perturbation problems for interfacial cracks in three dimensions

*Break*

*Minisymposium “Theory and Applications, Measures of the Dynamical Integrity”*

CHAIRPERSON K.S. HEDRIH

**11:00–11:40 O.A. Goroshko, K. Hedrih.** Construction of lagrange mechanics of the hereditary systems

**11:40–12:10 S.S. Antman, W. Lacarbonara.** Parametric instabilities of nonlinearly viscoelastic cylindrical shells and rings subject to periodic hydrostatic excitations

*Coffee break*

**12:30–13:00 Y. Shimomura.** An open question in mechanics of a spinning egg

**13:00–13:30 M.P. Wnuk, A. Yavari.** Fractal aspects and discrete nature of crack propagation

**13:30–14:00 I.A. Miklashevich.** Chaotical properties of the crack propagation and control of the chaos by the electromagnetic fields

*Evening Session*

*Minisymposium “Theory and Applications, Measures of the Dynamical Integrity”*

CHAIRPERSON K.S. HEDRIH

**15:30–16:00 A. Nakatani.** Microdynamics simulation in deformable body mechanics

**16:00–16:30 V.Z. Gristchak, O.A. Ganilova.** Behavior of a simmetrical orthotropic sandwich plate subjected to the dynamic loading

**16:30–17:00 D. Tirelli, G. Magonette.** The pseudo dynamic method in elsa\*1 laboratory an hybrid\*2 solution for non-linear problems in structural mechanics

*Coffee break*

**17:20–17:50 V.E. Volkova.** The development of qualitative methods of identification of non-linear dynamic systems

**17:50–18:20 P.A. Gladkov.** Wave packets in a thin timoshenko-like shell with variable parameters

**18:20–18:50 A.I. Manevich.** Influence of longitudinal inertia forces on nonlinear flexural oscillations of beams with concentrated masses

Room B

*Morning Session*

*Minisymposium “Nonlinear Waves in Mechanical Systems”*

CO-CHAIRPERSONS A.V. PORUBOV, V.I. EROFEEV

**11:10–11:40 A. Slunyaev.** Nonlinear analysis and simulations of freak waves

**11:40–12:10 A. Il'ichev.** Stability and instability of solitary waves in inextensible rods

*Coffee break*

**12:30–13:00 P. Giovine, L. Fiorino.** Macro-Acceleration Waves in Thermoelastic Porous Media

**13:00–13:30 V.I. Erofeyev, A.G. Pegushin, S.F. Sheshenin.** Nonlinear Waves in Biot Medium with Fluid Saturated Cavities

**13:30–14:00 A.V. Bogdanov, V.V. Mareev.** Quasiclassical methods for perturbed KdVB equation

*Evening Session*

*Minisymposium “Nonlinear Waves in Mechanical Systems”*

CO-CHAIRPERSONS A.V. PORUBOV, V.I. EROFEEV

**15:30–16:00 E.E. Lissenkova, V.V. Kazhaev, N.P. Semerikova.** Flexural Oscillations Timoshenko and Raleigh Beams Resting on an Nonlinear Foundation

**16:00–16:30 V.V. Mishakin, M.Yu. Naumov, S.V. Mishakin.** The use of Acoustic Signals to Estimate the Damage Condition of Materials after Static and Fatigue Loads

**16:30–17:00 A. Knyazeva.** Combustion wave modeling in modern technologies

*Coffee break*

**17:20–17:50 V.E. Odintsova, A.T. Il'ichev.** Development of unstable long wave perturbations of vertical flows with phase transitions in geothermal systems

**17:50–18:20 A.V. Porubov.** Localized strain waves in media with abnormal nonlinear properties

**18:20–18:50 A.I. Zemlyanukhin, V.M. Catson.** Analytic solution and numerical investigation of two-dimensional Kawahara equation

JUNE 25, MONDAY

Room A

*Morning Session*

CHAIRPERSON S.N. GAVRILOV

**9:30–10:10 S.A. Nazarov.** Elastic waves dampers

**10:10–10:50 A. Barrero, I.G. Loscertales.** Mico and nanoparticles va electro-capillary flows

**10:50–11:30 A. Ramos, A. Castellanos.** Electrohydrodynamic and Magneto-hydrodynamic Integrated Micropumps

*Coffee break*

*Minisymposium “Theory and Applications, Measures of the Dynamical Integrity”*

CHAIRPERSON K.S. HEDRIH

**11:50–12:20 G.V. Kostin, V.V. Saurin.** Optimal control for 3d elastic body motions

**12:20–12:50 V.V. Saurin, G.V. Kostin.** Integro-differential approach for free beam vibrations

**12:50–13:20 O.A. Goroshko, N.P. Puchko.** Application of Krilov-Bogolubov-Mitropolsky methods in hereditary system dynamics

**13:20–13:50 K. Hedrih.** Multi frequency and infinite-frequency regimes and lyapunov exponents as the measures of the hybrid system dynamic integrity

*Evening Session*

CHAIRPERSON M. CARTMELL

**15:30–16:10 I.I. Blekhman, D.A. Indejtsev A.L. Fradkov.** On “internal pendulum” in an oscillatory system with inertia excitation

*Minisymposium “Vibrational Mechanics and Synchronization”*

CHAIRPERSON I.I. BLEKHMAN

**16:10–16:40 I. Brigadnov.** Parametric control of magnetorheological damper with magnetosensitive elastic element

**16:40–17:10 I.I. Blekhman, L.I. Blekhman, L.A. Vaisberg, V.B. Vasilkov, K.S. Yakimova.** To the theory of separating solid particles according to their shape on a vibrating surface

*Coffee break*

**17:30–18:00 L.I. Manevich, V.V. Smirnov.** Intrinsic localized modes mobility in small fermi-pasta-ulam systems

**18:00–18:30 I.I. Blekhman, V.S. Sorokin.** Motion of a solid particle and of a gas bubble in an oscillating fluid

**18:30–19:00 S. Palis.** Dissipativity-based control for magnetic bearings

**21.00 Banquet**

Room B

*Morning Session*

*Minisymposium “Mobile Particulate Systems”*

CHAIRPERSON A. CASTELLANOS

**11:50–12:15 E.F. Grekova, A. Castellanos, S.N. Gavrilov, M.A.S. Quintanilla, J.M. Valverde.** Some ideas on modelling stress propagation in granular media

**12:15–12:40 A. Castellanos.** The onset of plastic flow in rotating powder layers

**12:40–13:05 P. Mueller, S. Antonyuk, J. Tomas.** Restitution coefficient at impact of granules

**13:05–13:30 I.F. Golovnev, M.S. Ozhgibesov, V.M. Fomin.** Research into gas elements flow in round cross-section nanochannels by molecular dynamics method

**13:30–13:55 N. Brilliantov.** Collision of granular particles with adhesion

*Evening Session*

CHAIRPERSON V.A. EREMEEV

*Nanostructures and thin films*

**16:15–16:35 S.A. Nazarov, J.H. Videman.** A nonlinear Reynolds equation for thin viscous flows

**16:35–16:55 S.A. Atroshenko, V.A. Ermolaev, W. Hu, N.S. Naumova.** Nanocrystalline formation in copper induced shock loading

**16:55–17:15 R. Florea, D. Cotoros, D. Nicoara.** Improvement of the journal bearings properties by nanolayers coating

*Coffee break*

CHAIRPERSON A.D. SERGEEV

*Solids and structures*

**17:35–17:55 R.A. Arutyunyan.** Creep, embrittlement and fracture of metallic materials undergoing irradiation

**17:55–18:15 A.K. Belyaev, A.A. Muzaev .** Thermodynamic derivation of dynamic and state equations for polarized thermoelastic materials

**18:15–18:35 E. Bezoyan.** On an approach to study the influence of nonlinear viscoelasticity to the stress-strain conditions of shells and plates with account of transversal shear

**18:35–18:55 A.V. Zaitsev, Y.K. Pokataev.** Probabilistic analysis of random-structured fibre- and particle-reinforced composites

JUNE 26, TUESDAY

Room A

*Morning Session*

CHAIRPERSON V.A. EREMEEV

**9:30–10:10** V.A. Palmov. Is multiplicative decomposition of deformation gradient the unique way in nonlinear plasticity?

*Break*

CHAIRPERSON I.E. BERINSKIY

*Posters presentations*

**10:20–10:30** OPENING CEREMONY

**10:30–12:00** Posters presentations (Young scientists session)

*Coffee break*

**12:20–13:50** Posters presentations (Session PS1)

Room B

*Evening Session*

**15:30–17:00** Posters (Young scientists session)

*Coffee break*

**17:20–18:50** Posters (Session PS1)

JUNE 27, WEDNESDAY

Room A

*Morning Session*

CHAIRPERSON A.B.FREIDIN

- 10:00–10:40** M.A. Guzev. Exactly solved model of molecular dynamics  
**10:40–11:20** E.L. Aero. Some effects of cardinal rearrangements of crystalline structure under catastrophic deformations in the frame of nonlinear micromechanics

*Break*

CHAIRPERSON A.M. KRIVTSOV

*Computational mechanics*

- 11:30–11:50** H. Teodorescu, S. Vlase, L. Scutaru, V. Guiman, D. Rosu, F. Teodorescu. Homogenization method applied to heterogeneous and anisotropic pre-impregnated composite materials  
**11:50–12:10** A. Belokon, A. Skaliukh. Polarization of ferroelectric ceramics  
**12:10–12:30** Yu. Stepanova, V. Levkovitch, B. Svendsen. Micromechanically motivated macroscopic modeling of induced flow anisotropy and forming limits with application to sheet metal forming

*Coffee break*

- 12:50–13:10** L.V. Stepanova, E.A. SkopinsteV. Higher order fields at a mode I crack in power-law materials  
**13:10–13:30** A.A. Dobroskok, V.F. Koshelev, A.M. Linkov. Complex variable BIE and BEM for harmonic problems  
**13:30–13:50** P. Voinovich, A. Merlen, Z. Qi. Fine variations in wavelength strongly influencing amplification by wave phase conjugation: a numerical study

*Evening Session*

CHAIRPERSON I.E. BERINSKIY

*Posters presentations*

- 15:30–17:00** Posters presentations (Session PS2)

*Coffee break*

Room B

*Morning Session*

*Minisymposium “Rare Dynamical Phenomena in Mechanics. Theory and Applications”*

CHAIRPERSON M.V. ZAKRZHEVSKY

- 11:30–12:00** M.V. Zakrzhevsky. Method of Complete Bifurcation Groups and its Application for Prediction of Rare Dangerous Dynamical Phenomena  
**12:00–12:30** V.Y. Yevstignejev, M.V. Zakrzhevsky, I.T. Schukin, R.S. Smirnova. Typical Complex Bifurcation Groups with Rare Attractors and Fully Unstable Isles in the Driven Nonlinear Oscillators

*Coffee break*

- 12:50–13:20** V.N. Pilishkin, G.G. Cherkasov. Low-order robust controller synthesis on the basis of phase limits variation method  
**13:20–13:50** M. Ciavarella. Friction dynamic and thermoelastic instabilities

*Evening Session*

- 17:20–18:50** Posters (Session PS2)

JUNE 28, THURSDAY

Room A

*Morning Session*

CHAIRPERSON D.A.INDEITSEV

**10:00–10:40** **B.D. Anin.** New exact solutions of plasticity equations

**10:40–12:10** **CLOSING CEREMONY**

Room B