

Registration Fee

Registration fee for regular participants is 4000 rubles if paid before 07/01/15, and 5000 rubles after 07/01/15. For undergraduate and graduate students registration fee is 1000 rubles up to 07/01/15, and 1500 rubles after 07/01/15. The payment may be paid in cash at the Conference desk.

The registration fees include:

- administrative costs
- abstract book
- coffee breaks

Accommodation

The Organizing Committee offers the accommodation for participants in a Hotel close to the Conference Building.

Deadlines

- Pre-registration– May 01, 2015
- Abstracts – May 30, 2015
- Papers – September 01, 2015

Pre-registration form, program, instructions for abstracts and papers preparation as well as current news about the Conference will be available at vorstu.wix.com/conference

Call for Abstracts

Oral and poster presentations will be selected on the basis of submitted abstracts by the Program Committee but authors are invited to mark their preference in the registration form.

The template for abstract preparation can be downloaded from the Conference website. Abstracts must be written in English (preferably) or Russian language, file format is .rtf (MS Word 2003 or 2007 is recommended). Use A4 paper for the document size with margins 3 cm from all

edges of the page. Type the text of the abstract using 12 pt Times New Roman font and single space. The length of the abstract is limited to one page including title, name(s) of author(s) and affiliation(s). The title must be typed with bold capitals 14 pt font size and centered. Underline the presenting author's name. Different author affiliations must be indicated with numbered superscripts.

The Conference is organized by:

- Ministry of General and Professional Education of Russian Federation
- The Russian Academy of Sciences
- Voronezh State Technical University
- The National University of Science and Technology MISiS
- Voronezh Technical University

Sponsors:

- Russian Foundation for Basic Research

First circular

The XXIII International Conference
on
**RELAXATION PHENOMENA
IN SOLIDS**
dedicated to the 100th anniversary of
the V.S. Postnikov birth



Voronezh, Russia
September 16 – 19, 2015

About the conference

XXIII International Conference "Relaxation phenomena in solids" will be held from 16 to 19 September 2015 in Voronezh city, Russia. The first conference was held in 1958 in Moscow and in subsequent years was held in different cities of Russia (Moscow, Tula, Voronezh) and the cities of the former Soviet Union (Kharkov, Tbilisi).

Official languages of the conference are Russian and English.

Topics:

I. Theory of relaxation phenomena

- 1.1. Quantum relaxation mechanisms
- 1.2. Classical mechanisms of relaxation phenomena
- 1.3. Electron and phonon relaxation
- 1.4. Relaxation phenomena in the process of external influence on the material

II. Mechanical relaxation

- 2.1. Aftereffect and stress relaxation
- 2.2. Internal friction related to micro- and macrodefects in metals
 - 2.2.1. Point defects
 - 2.2.2. Dislocations
 - 2.2.3. Interphase and domain boundaries
 - 2.2.4. Materials after severe plastic deformation
- 2.3. Internal friction in solids
 - 2.3.1. Metals and alloys
 - 2.3.2. Semiconductors
 - 2.3.3. Oxide glasses and ceramics
 - 2.3.4. Polymers and composites based on them
 - 2.3.5. Superconductors
 - 2.3.6. Superionic conductors
 - 2.3.7. Ferroelastics and ferroelectrics
- 2.4. Long-term processes of change in the structure and materials properties
- 2.5. Materials fatigue and creep

III. Dielectric relaxation

- 3.1. Dielectric relaxation in phase transitions
- 3.2. Dipole glasses and relaxors
- 3.3. Multiferroics and magnetoelectric composites
- 3.4. Degradation of material parameters

IV. Magnetic relaxation

- 4.1. Ferromagnets
- 4.2. Spin glasses
- 4.3. Superparamagnets
- 4.4. Magnetic colloids and liquids
- 4.5. Magnetic semiconductors

V. Relaxation in nanosystems

- 5.1. Graphenes, fullerenes and carbon nanotubes
- 5.2. Amorphous metal alloys
- 5.3. Nanocrystalline solids
- 5.4. Nanocomposites
- 5.5. Thin films and multilayer structures
- 5.5. Heterostructure

VI. Miscellanea

- 6.2. Hydrogen in metals and semiconductors
- 6.3. Relaxation in strongly nonequilibrium conditions
- 6.4. Relaxation in biomaterials

VII. Methods and apparatus for measuring relaxation phenomena

Conference chairmen

B.M. Darinsky (Voronezh, Russia)
Yu.E. Kalinin (Voronezh, Russia)

Conference co-chairmen

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L.N. Korotkov (Voronezh, Russia)

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