

Program of the Russia-Japan Joint Seminar
“Non-equilibrium processing of materials: experiments and modeling”

October 1, 2018, NIIC SB RAS

09-00	Session I: Opening Address & Keynote Lectures
10-50	Conference Photo, Coffee break
11-20	Session II: Keynote + Invited Lectures
13-00	Lunch
14-30	Session III: Oral presentations A (P01_01 – P01_22)
16-30	Coffee break
16-40	Session IV: Poster presentations A (P01_01 – P01_22)

October 2, 2018, NIIC SB RAS

09-00	Session V: Keynote Lectures
11-00	Coffee break
11-20	Session VI: Keynote & Invited Lectures
13-00	Lunch
14-30	Session VII: Oral presentations B (P02_23 – P02_43)
16-30	Coffee break
16-40	Session VIII: Poster presentations B (P02_23 – P02_43)

October 3, 2018, NSU

09-00	Session IX: Keynote Lectures
11-00	Coffee break
11-20	Session X: Keynote and Invited Lectures
13-00	Lunch
14-30	Session XI: Invited Lectures
16-00	Coffee break
16-20	Session XII: Invited Lectures, Closing ceremony

NIIC SB RAS – Nikolaev Institute of Inorganic Chemistry SB RAS,
3, Acad. Lavrentiev Ave., Novosibirsk

NSU – Novosibirsk State University, 2, Pirogova Str., Novosibirsk

October 1, 2018, NIIC SB RAS

Opening Ceremony

Chair: Prof. V.P. Fedin (*Nikolaev Institute of Inorganic Chemistry SB RAS*)

09:00—09:20 **Opening Address and Welcome Speech**

S.V. Golovin (*Lavrentyev Institute of Hydrodynamics SB RAS*)

H. Kato (*Tohoku University*)

T. Goto (*Tohoku University*)

V.P. Fedin (*Nikolaev Institute of Inorganic Chemistry SB RAS*)

Session I

Chair: Prof. S.V. Golovin (*Lavrentyev Institute of Hydrodynamics SB RAS*)

Keynote Lectures

09:20 – 09:50

T. Goto, Li Ying, H. Katsui

Tohoku University, Japan

“Spinodal decomposition of TiCN-ZrCN composite prepared by SPS”

09:50—10:20

V.P. Fedin

Nikolaev Institute of Inorganic Chemistry SB RAS, Russia

“Metal-Organic Framework Materials with High Proton Conductivity”

10:20—10:50

H. Miyasaka

Tohoku University, Japan

“Charge-Transfer Engineering for Porous Magnets”

10:50—11:20

Conference Photo, Coffee Break

Session II

Chair: Prof. T. Goto (*Tohoku University*)

Keynote Lectures

11:20—11:50

H. Kato, S. H. Joo, R. V. Belosludov, M. Tsuda, S. Nakamura

Tohoku University, Japan

“Effect of minor dopant on ligament growth of porous metals prepared by liquid metal dealloying”

11:50 – 12:20

A. Shtertser, B. Zlobin

Lavrentyev Institute of Hydrodynamics SB RAS, Russia

“Pulse Technologies of Material Processing”

Invited Lectures

12:20 – 12:40

K. Maeda, S. Uda, K. Fujiwara

Tohoku University, Japan

“Fabrication of periodically-twinned borate crystal for optical wavelength conversion”

12:40 – 13:00

A.A. Matvienko, A.S. Skrypnik, S.A. Chizhik, A.A. Sidelnikov

Institute of Solid State Chemistry SB RAS, Novosibirsk State University, Russia

“The mechanism of porosity formation during chemical reactions”

13:00 – 14:30

Lunch

Session III: Oral presentations A (P01_01 – P01_22)
(14-30 – 16-30)

16-30 – 16-40 Coffee Break

Session IV: Poster presentations A (P01_01 – P01_22)
(16-40 – 17-40)

Speakers List of Session III & IV

P01_01	<u>A.V. Alekseev</u> , M.A. Esikov, V.I. Mali, A.A. Khasin, M.R. Predtechensky <i>Kutateladze Institute of Thermophysics SB RAS, Lavrentyev Institute of Hydrodynamics SB RAS, Russia</i> “The influence of carbon nanotubes and oxide nanofibers on the mechanical properties of aluminum matrix composites”
P01_02	<u>D.V. Alekseev</u> , Yu. G. Mateyshina <i>Novosibirsk State University, Institute of Solid State Chemistry and Mechanochemistry, Russia</i> “Functionalization of nanodiamonds and investigation of transport properties of composites on their basis”
P01_03	<u>V.E. Anikeeva</u> , O.E Tereshchenko, O.I. Semenova <i>Novosibirsk State University, Rzhanov Institute of Semiconductor Physics SB RAS, Russia</i> “Structure and optoelectronic properties of methyl ammonium lead iodide perovskite”
P01_04	<u>I.S. Batraev</u> , V.Yu. Ulianitsky, A.A. Shtertser <i>Lavrentyev Institute of Hydrodynamics, Russia</i> “The influence of O ₂ /C ₂ H ₂ ratio of a gas explosive mixture on the properties of ceramic detonation coatings”
P01_05	<u>V. Belyavin</u> , M. Kozlova, V. Fedorov <i>Novosibirsk State University, Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Synthesis and properties of molybdenum and niobium sesquichalcogenides”
P01_06	<u>V.A. Blinov</u> , M.A. Legan <i>Lavrentyev Institute of Hydrodynamics SB RAS, Novosibirsk State Technical University, Russia</i> “Hydraulic fracturing of cylindrical bodies of brittle materials in a non-uniform stress field”
P01_07	<u>M. Datekyu</u> , W. Yashiro, H. Kato <i>Tohoku University, Japan</i> “Experiment and Theory of Buckling Failure of Si Grating for Imprinting Mold”
P01_08	<u>S.I. Dorovskikh</u> , E.S. Vikulova, D.B. Kal'nui, V.V. Kokovkin, N.B. Morozova <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Formation of mono- and bimetallic platinum based coatings on medical electrodes by MOCVD”
P01_09	<u>M. A. Esikov</u> , M. A. Korchagin, A. V. Ukhina, I. S. Batraev <i>Lavrentyev Institute of Hydrodynamics SB RAS, Novosibirsk State Technical University, Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia</i> “YSZ/MoSi ₂ composites Spark Plasma Sintered from mechanically milled powders”
P01_10	<u>N.V. Fedorova</u> , M.A. Legan <i>Lavrentyev Institute of Hydrodynamics SB RAS, Novosibirsk State Technical University, Russia</i> “Determining the contact stresses of the ball indentation in glass specimens with the actual conditions of their support”
P01_11	<u>E.O. Fedorovskaya</u> , L.G. Bulusheva, A.V. Okotrub <i>Novosibirsk State University, Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Carbon and hybrid nanomaterials for electrochemical supercapacitor applications”
P01_12	<u>A.A. Gaydamaka</u> , V.G. Ponomareva, I.N. Bagryantseva <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk State University, Russia</i> “Investigation of solid acids of rubidium as proton conductors”
P01_13	V. D. Grigorieva

	Nikolaev Institute of Inorganic Chemistry SB RAS, Russia “First results of Na ₂ Mo ₂₀₇ crystal growth by low-thermal-gradient Czochralki technique”
P01_14	<u>A.A. Iurchenkova</u> , E.O. Fedorovskaya, L.G. Bulusheva, A.V. Okotrub <i>Novosibirsk State University, Nikolaev Institute of Inorganic Chemistry, SB RAS, Russia</i> “Synthesis and electrochemical properties of halogen functionalized reduced graphite oxide”
P01_15	<u>D.D. Klyamer</u> , T.V. Basova, A.S. Sukhikh <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia</i> “Films of fluorosubstituted vanadyl phthalocyanines: preparation, structural features and sensor properties”
P01_16	<u>A.A. Kobets</u> , E.O. Fedorovskaya, L.G. Bulusheva, A.V. Okotrub <i>Novosibirsk State University, Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Structure, kinetic and electrochemical properties of the reduced graphite oxide and functionalized reduced graphite oxide”
P01_17	<u>A.N. Kolodin</u> <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Surface phenomena on textured substrates: wettability, evaporation and spreading”
P01_18	<u>V.V. Krizhanovskiy</u> <i>Lavrentev Institute of Hydrodynamics SB RAS, Russia</i> “Numerical study of evolution of thermal and electrical properties of materials during Spark Plasma Sintering”
P01_19	<u>K.V. Kubrak</u> , A.K. Rebrov, T.T. Bieiadovskii <i>Kutateladze Institute of Thermophysics SB RAS, Russia</i> “Synthesis of diamond coatings using high-velocity gas flow activated in heated tungsten channels”
P01_20	<u>N.M. Kuprikova</u> , T.V. Basova, D.D. Klyamer, A.S. Sukhikh <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia</i> “Influence of fluorine substituents on the structure and sensor properties of lead phthalocyanine films”
P01_21	<u>L.L. Lapteva</u> , Yu.V. Fedoseeva, E.V. Shlyakhova, L.G. Bulusheva, A.V. Okotrub <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia</i> “Influence of the porous carbon materials structure on their lithium storage capacity”
P01_22	<u>V.V. Lozanov</u> , N.I. Baklanova <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia</i> “The formation of intermetallic phases in the ternary Hf(Ta) – C – Ir systems”

October 2, 2018, NIIC SB RAS

Session V

Chair: Prof. A. Shtertser (*Lavrentyev Institute of Hydrodynamics SB RAS*)

Keynote Lectures

09-00 – 9-30

A. Nemudry

Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia

“Oxygen transport membranes: new materials, new approaches”

09:30—10:00

V.L. Kuznetsov

Boreskov Institute of Catalysis, Russia

“Reactive interfaces in oxide matrix composites containing carbon nanotubes”

10:00—10:30

N.V. Kosova

Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia

“Multi-electron redox electrode materials for Li- and Na-ion batteries”

10-30 – 11-00

T. Basova

Nikolaev Institute of Inorganic Chemistry SB RAS, Russia

“Metal phthalocyanines and their hybrid materials with carbon nanotubes as active layers of chemical sensors”

11:00—11:20

Coffee Break

Session VI

Chair: Prof. H. Kato (*Tohoku University*)

Keynote Lectures

11:20—11:50

V. De Zotti, P.-P. Cortet, L. Vanel, S. Santucci

Université de Lyon, Université Paris-Sud, France

Lavrentyev Institute of Hydrodynamics, Novosibirsk, Russia

“New insights into high-speed adhesive tape peeling:

Inertial effects on the multi-scale stick-slip dynamics”

11-50 – 12-20

S.N. Korobeynikov, V.V. Alyokhin, A.V. Babichev

Lavrentyev Institute of Hydrodynamics SB RAS, Sobolev Institute of Geology and Mineralogy SB RAS, Russia

“On mechanical moduli of single layer graphene sheets”

Invited Lectures

12-20 – 12-40

S.A. Chizhik, A.A. Matvienko, A.A. Sidelnikov

Institute of Solid State Chemistry and Mechanochemistry SB RAS,

Novosibirsk State University, Russia

“Spatially ordered fracture front induced by dehydration of

$\text{CuCl}_2 \times 2\text{H}_2\text{O}$ ”

12-40 – 13-00

R. Belosludov

Tohoku University, Japan

“Theoretical aspects in realization of functional nanomaterials for energy and medical applications”

13-00 – 14-30

Lunch

Session VII: Oral presentations B (P02_23 – P02_43)
(14-30 – 16-30)

16-30 – 16-40 Coffee Break

Session VIII: Poster presentations B (P02_23 – P02_43)
(16-40 – 17-40)

Speakers List of Session VII & VIII

P02_23	<u>S.V. Makarova</u> , N.V. Bulina, M.V. Chaikina <i>Novosibirsk state university, Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia</i> “Crystal structure of lanthanum-silicate co-substituted apatite obtained by mechanochemical synthesis”
P02_24	<u>D.V. Maslennikov</u> , A.A. Matvienko, S.A. Chizhik, M.P. Popov, A.A. Sidelnikov, A.P. Nemudry <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk State University, Russia</i> “Morphological design of doped cerium oxide during the thermal decomposition of an oxalate precursor and its application for creation a gas-tight electrolytic layer in the MT SOFC”
P02_25	<u>I.S. Merenkov</u> , Y. Li, M.N. Khomyakov, H. Katsui, M.L. Kosinova, T. Goto <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Institute of Laser Physics SB RAS, Russia, Tohoku University, Japan</i> “High-Speed Deposition of Hard SiBCN Coatings by Laser CVD”
P02_26	<u>N.S. Nikolaeva</u> , A.D. Shushanyan, E.A. Maksimovsky, A.S. Sukhikh, N.B. Morozova <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Co-deposition features of Pd-Cu, Pd-Au films under non-equilibrium CVD conditions”
P02_27	<u>A.D. Nishchakova</u> , L.G. Bulusheva, E.V. Shlyakhova, I.P. Asanov, K.A. Kovalenko, K.I. Baskakova, A.V. Okotrub <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia</i> “Template synthesis of nitrogen doped porous carbon on CaO particles”
P02_28	<u>Won-Young Park</u> , Takeshi Wada, Soo-Hyun Joo, Hidemi Kato <i>Tohoku University, Japan</i> “Influence of dealloying media metal on microstructure and properties of porous product by liquid metal dealloying”
P02_29	<u>A.G. Plekhanov</u> , N.I. Fainer, E.A. Maksimovskii, Yu.M. Rumyantsev <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Plasma-chemical synthesis of thin films of silicon oxycarbonitride from the gas mixture methyltris(diethylamino)silane, nitrogen and oxygen”
P02_30	<u>M.S. Polyakov</u> , T.V. Basova <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “3D Carbon nanomaterials with pyrene and coumarin linkers: synthesis, structure and sensor properties”
P02_31	<u>K.M. Popov</u> , V.E. Arkhipov, D.V. Gorodetskiy, A.A. Tsygankov, A.V. Guselnikov, L.G. Bulusheva, A.V. Okotrub <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia</i> “Electrophysical properties and electronic structure of nitrogen-doped graphene films”
P02_32	<u>M.P. Popov</u> , S.F. Bychkov, S.A. Chizhik, A.P. Nemudry <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk State University, Russia</i> “Kinetic of oxygen release from grossly nonstoichiometric BSCF perovskite”

P02_33	<u>R. V. Pushkarev</u> , N.I. Fainer, H. Katsui, P.O. Tolstova <i>Nikolaev Institute of Inorganic Chemistry SBRAS, Russia</i> “Structural features of epitaxial α -FeSi ₂ films deposited by CVD on Si(100)”
P02_34	<u>D.O. Rezepova</u> , N.V. Kosova <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS Russia</i> “ <i>In situ</i> formation of the conductive networks in the Na ₃ V ₂ (PO ₄) ₂ F ₃ -based cathode materials for Na- and Li-ion batteries”
P02_35	<u>D. Rieder</u> , Yu.V. Rudneva, Yu.I. Bauman, I.V. Mishakov, P.E. Plyusnin, Yu.V. Shubin, A.A. Vedyagin <i>Karlsruhe Institute of Technology, Germany, Boreskov Institute of Catalysis, Novosibirsk State University, Nikolaev Institute of Inorganic Chemistry, National Research Tomsk Polytechnic University, Russia</i> “Nanostructured Carbon Materials from 1,2-dichloroethane: synthesis and properties”
P02_36	<u>D.K. Rybin</u> , H. Kato, A.A. Shtertser <i>Lavrentyev Institute of Hydrodynamics SB RAS, Russia, Tohoku University, Japan</i> “Structural investigation of nanoscale detonation carbon obtained using a pulse gas-detonation device”
P02_37	<u>O.V. Sedelnikova</u> , L.G. Bulusheva, A.L. Chuvilin, A.V. Okotrub <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia, CIC NanoGUNE, Spain</i> “Plasmon fingerprint of Moiré pattern in twisted bilayer graphene”
P02_38	<u>A.S. Skrypnik</u> , A.A. Matvienko <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia</i> “The study of the formation of porous nickel in the reduction of nickel oxide by hydrogen”
P02_39	<u>S.G. Stolyarova</u> , A.V. Okotrub, L.G. Bulusheva <i>Nikolaev Institute of Inorganic Chemistry SBRAS, Russia</i> “Component coupling in MoS ₂ /holey graphene hybrids”
P02_40	<u>T. Suga</u> , P.-A. Geslin, T. Wada, H. Kato <i>Tohoku University, Japan, University Lyon, France</i> “Analysis of liquid metal dealloying reaction by ternary phase diagram”
P02_41	<u>A.S. Sukhikh</u> , D.D. Klyamer, S.A. Gromilov, T.V. Basova <i>Nikolaev Institute of Inorganic Chemistry SB RAS, Russia</i> “Phase transitions in metal phthalocyanine thin films, studied by 2D GIXD”
P02_42	<u>M. Syrokvashin</u> , E. Korotaev, I. Filatova, A. Kalinkin, N. Kruchkova <i>Institute of Inorganic Chemistry SB RAS, Russia</i> “Manganese sulfides crystals doped with rare-earth elements prepared using induction heating: thermoelectric properties and XPS study”
P02_43	<u>A.V. Ukhina</u> , D.V. Dudina, B.B. Bokhonov <i>Institute of Solid State Chemistry and Mechanochemistry SB RAS, Lavrentyev Institute of Hydrodynamics SB RAS, Russia</i> “Deposition of tungsten-containing films on the surface of synthetic diamond crystals during hot pressing and Spark Plasma Sintering”
P02_44	<u>Parshin D.V.</u> , <u>Kuianova Iu.O.</u> <i>Lavrentyev Institute of Hydrodynamics SB RAS, Novosibirsk State University</i> 3D-modeling of cerebral vessels with an aneurysm and virtual stent
P02_45	<u>O.N. Sidelnikova</u> <i>Institute of Solid State Chemistry and Mechanochemistry, Novosibirsk, Russia</i> “Estimation of the specific surface area of the frame bulk porous material (with/without surface nanolayer) having the strict ordered geometrical parameters”

October 3, 2018, NSU

Session IX

Chair: Prof. R. Belosludov (*Tohoku University, Japan*)

Keynote Lectures

09-00 – 09-30

Y. Kawazoe

Tohoku University, Japan, SRM Institute of Science and Technology, India
“Materials Informatics based on Reliable Materials Database”

09:30—10:00

N.I. Baklanova

Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia
“Iridium-Based Intermetallics as a New Platform for Ultra High-Temperature Materials”

10:00—10:30

A.V. Okotrub, V.I. Sysoev, L.G. Bulusheva

Nikolaev Institute of Inorganic Chemistry SB RAS, Russia

“Micro-supercapacitors based on laser-treated fluorinated graphene films”

10-30 – 11-00

K.A. Brylev

Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia

“Hexamolybdenum and hexarhenium cluster luminophores: On the way from synthesis to applications”

11:00—11:20

Coffee Break

Session X

Chair: Prof. H. Miyasaka (*Tohoku University, Japan*)

Keynote Lectures

11:20—11:50

A.V. Shutov

Lavrentyev Institute of Hydrodynamics, Novosibirsk State University, Russia
“Simulation on different length scales of the grain refinement in metallic materials caused by severe plastic deformation”

11-50 – 12-20

S.P. Kiselev, V.P. Kiselev

Khristianovich Institute of Theoretical and Applied Mechanics SB RAS, Russia

“Numerical modeling of the synthesis and failure of Ti-Al intermetallic by molecular dynamics method”

Invited Lectures

12-20 – 12-40

S. Semboshi

Tohoku University, Japan

“Recent study on high-strength and high-electrical conductive Cu alloys”

12-40 – 13-00

E.S. Vikulova, K.V Zherikova, S.V. Zabuslaev, I.G. Vasilyeva

Nikolaev Institute of Inorganic Chemistry SB RAS, Russia

“In the Search of Enhanced Secondary Electron Emission: Is There Any Component Interaction in MgO-RuO₂ System?”

13-00 – 14-30

Lunch

Session XI

Chair: Dr. D. Dudina (*Lavrentyev Institute of Hydrodynamics, Russia*)

Invited Lectures

14-30 – 14-50

A.I. Safonov, V.S. Sulyaeva, S.V. Starinskiy, A.L.

Bogoslovtseva, E.Ya. Gatapova, N.I. Timoshenko

Kutateladze Institute of Thermophysics SB RAS, Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk State University, Russia

- “Deposition features and wettability behavior of fluoropolymer films from hexafluoropropylene oxide activated by NiCr wire in HW CVD”
- 14-50 – 15-10** S.V. Starinskiy, Yu.G. Shukhov, A.A. Rodionov, A.V. Bulgakov
Kutateladze Institute of Thermophysics SB RAS, Novosibirsk State University, Russia, Institute of Physics CAS, Czech Republic
- “Investigation of laser ablation of tin in the regimes of thin film deposition”
- 15-10 – 15-30** E.S. Vikulova, S.I. Dorovskikh, I.Yu. Ilyin, N.B. Morozova, I.K. Igumenov
Nikolaev Institute of Inorganic Chemistry SB RAS, Russia
- “MOCVD of platinum metal coatings for medical application: reality and progress”
- 15-30 – 15-45** I.Yu. Prosanov
Institute of Solid State Chemistry and Mechanochemistry SB RAS, Russia
- “Template synthesis of inorganic polymers”
- 15-45 – 16-00** O.A. Shkoda, O.V. Lapshin
Tomsk Scientific Center SB RAS, Russia
- “High temperature synthesis of titanium nickelide from mechanically activated powder mixture”
- 16-00 – 16-20** *Coffee Break*

Session XII

Chair: Prof. Y. Kawazoe (*Tohoku University, Japan*)

Invited Lectures

- 16-20 – 16-35** I.N. Bagryantseva, N.P. Lazareva., V.G. Ponomareva
Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk State University, Russia
- “New proton medium temperature polymer membranes based on CsH₂PO₄”
- 16:35 – 16:50** N.D. Shmakova, S.F.A. Santucci, E.V. Ermanyuk
Lavrentyev Institute of Hydrodynamics SB RAS, Russia, University Lyon, CNRS, France
- “Foam flows over local construction”
- 16:50 – 17:05** O.N. Sidelnikova, A.N. Salanov, D.A. Jatzenko, A.N. Serkova
Institute of Solid State Chemistry and Mechanochemistry, Boreskov Institute of Catalysis SB RAS, Russia
- “Influence of the glass substrate treatment by surface ion exchange and chemical etching on structural features of the gold nanolayer”
- 17-05 – 17-20** V. Shayapov, L. Yakovkina
Nikolaev Institute of Inorganic Chemistry SB RAS, Russia
- “Mechanical stresses in vanadium dioxide thin films”
- 17:20 – 17:35** A. G. Anisimov, V. I. Mali
Lavrentyev Institute of Hydrodynamics SB RAS, Russia
- “Magnetic pulse welding of different metal sheets”
- 17:40** *Closing ceremony*