PRELIMINARY PROGRAM

of International Conference INTERFINISH SERIA 2014

Novosibirsk, 30 June – 3 July 2014

Section 1. Advanced methods of surface coating

Section 2. Theory

Section 3. Surface analysis and diagnostics

Section 4. Surface treatment and modification

30 June 2014

8:30 – 10:00		Registration
10:00 -10:20		Opening Cermenoy
		Section 1. Advanced methods of surface coating
10:20 - 10:50	I1	Masaru Tanaka, Kazuhiro Sato, Erika Kitakami, Takashi Hoshiba, Kazuki Fukushima, Shingo Kobayashi, DESIGN OF NOVEL BIOCOMPATIBLE SURFACES BASED ON SELF-ORGANIZED WATER STRUCTURE FOR MEDICAL DEVICES AND TISSUE ENGINEERING. *Biomaterials Science and Tissue Engineering Group, Department of Biochemical Engineering,Graduate School of Science and Engineering, Yamagata University*
10:50 – 11:10	O1	Dmitry R. Streltsov[1], Karen A. Mailyan[2], Alexey V. Gusev[2], Natalia A. Erina[3], Andrey V. Pebalk[4], Sergei A. Ozerin1, Sergei N. Chvalun[1,4] SURFACE MORPHOLOGY, ELECTRICAL PROPERTIES AND CRYSTALLINE STRUCTURE OF POLY(P-XYLYLENE) – SILVER NANOCOMPOSITES SYNTHESIZED BY LOW-TEMPERATURE VAPOR DEPOSITION POLYMERIZATION. *[1]Enikolopov Institute of Synthetic Polymeric Materials RAS, Moscow, Russia, [2]Institute for Theoretical and Applied Electromagnetics RAS, Moscow, Russia, [3]Bruker-Nano Inc., Santa Barbara, California, USA, [4]National Research Centre "Kurchatov Institute", Moscow, Russia*
11:10 – 11:30	O2	V.G. Burov[1], I.A. Bataev[1], A.G. Tyurin[1], S.V. Veselov[1] STRUCTURE AND PROPERTIES OF WC-Co COATINGS OBTAINED ON STEEL SUBSTRATES BY LIQUID STATE SINTERING IN VACUUM. *Novosibirsk State Technical University, Russia*
11:30 – 12:00		Coffee Break
12:00 – 12:30	I2	Baklanova N.I. RESEARCH AND DEVELOPMENT OF NANOSIZED INTERFACIAL COATINGS ON INORGANIC FIBERS FOR COMPOSITE MATERIALS. *Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk Russia*
12:30 – 12:50	O3	A.V. Utkin, N.I. Baklanova, t-ZRO_2 AND $ZrGeO_4$ INTERPHASES FOR SIC/SIC_F . COMPOSITES. *Institute of Solid State Chemistry and Mechanochemistry SB RAS,*
12:50 – 13:10	O4	Demin V.N.[1], Smirnova T.P. [1], Borisov V.O.[1], Grachev G.N.[2], Smirnov A.L.[2] , Chomyakov M.N.[2]. THE LASER PLASMOCHEMICAL SYNTHESIS OF HARD PROTECTIVE SICN FILMS ON ENGINEERING MATERIALS. *[1] Nikolaev Institute of Inorganic Chemistry Russian Academy of Sciences, Novosibirsk, Russia, [2] Institute of Laser Physics Russian Academy of Sciences, Novosibirsk, Russia*
		Lunch Break

14:10 – 14:40	I3	I.K.Igumenov, Modern MO-CVD Technologies. *Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia*
14:40 – 15:00	O5	Yu.V. Stulov, V.S. Dolmatov, S.A. Kuznetsov, DEPOSITION OF THE REFRACTORY METAL CARBIDES COATINGS ON CARBON STEELS AND FIBERS IN MOLTEN SALTS. *Institute of Chemistry, RAS, Apatity, Russia*
15:00 – 15:40	O6	A. R. Dubrovskiy, S. A. Kuznetsov. SYNTHESIS OF COATINGS ON MOLYBDENUM SUBSTRATE FOR CATALYTIC APPLICATION. *Institute of Chemistry, RAS, Apatity, Russia*
15:25 – 16:00	O7	Dina V. Dudina[1], Igor S. Batraev[2], Vladimir Yu. Ulianitsky[2], Natalia V. Bulina[1], Michail A. Korchagin[1], Oleg I. Lomovsky[1]. DETONATION SPRAYING ACCOMPANIED BY CHEMICAL REACTIONS OF THE POWDERS WITH THE GASEOUS ENVIRONMENT. *[1] Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia; [2] Lavrentiev Institute of Hydrodynamics SB RAS, Novosibirsk, Russia*
16:00 – 18:00		Poster Session 1
18:00 – 20:00		Welcome Party

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		Section 1. Advanced methods of surface coatings
9:30 -10:00	I4	Vladimir Yu. Ulianitsky[1], Igor S. Batraev[1], Alexander I. Kovalenko[1], Dina V. Dudina[2] METAL-CARBON COATINGS FORMED BY DETONATION SPRAYING IN HIGHLY REDUCING CONDITIONS *[1] Lavrentiev Institute of Hydrodynamics SB RAS, Novosibirsk, Russia, [2] Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia*
10:00– 10:20	O8	Subakova I.R., Medvedeva N.A., Petukhov I.V. OBTAINING OF Ni-P-TiO2 COMPOSITE COATINGS WITH TiO2 SOL AND SURFACTANTS AND THEIR PROPERTIES. *Perm State University, Russia*
10:20 - 10:40	O9	T.M. Zima[1, 2], I.V. Bataev[2], A.I. Smirnov[2] . CHITOSAN DERIVATIVES AS COATINGS ON ONE-DIMENSIONAL ELONGATED TITANIUM DIOXIDE NANOSTRUCTURES: SYNTHESIS AND CHARACTERIZATION. *[1]Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia;[2]Novosibirsk State Technical University, Novosibirsk, Russia*
10:40 – 11:00	O10	Tulenin S.S., Markov V.F., CHEMICAL BATH DEPOSITION OF In_2S_3 THIN FILMS. *Department of physical and colloidal chemistry, Ural Fedral University, Yekaterinburg, Russia*
11:00 – 11:30		Coffee Break
11:40 – 12:10	I5	A.I. Masliy, CHEMICAL AND ELECTROCHEMICAL METAL DEPOSITION ON POLYMERIC FIBRES. *Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk Russia*
12:10 – 12:30	O11	I.A. Bataev[1], M.G. Golkovskii[2], V.V. Samoilenko[1], A.A. Ruktuev[1], I.A. Polyakov[1], A.A. Bataev[1] NON-VACUUM ELECTRON BEAM MULTILAYER CLADDING OF TA ON TI PLATES. *[1]Novosibirsk State Technical University, Novosibirsk, Russia; [2]Budker Institute of Nuclear Physics, Siberian Branch, Russian Academy of Sciences, Novosibirsk,*

		Russia
12:30 – 12:50	O12	Simenyuk G.Yu.[1], Zakharov Yu.A.[1,2], Pavelko N.V.[2], Pugachev V.M.[2], Puzynin A.V.[1], Dodonov V.G.[2], Manina T.S.[1] NANOCOMPOSITE ELECTRODE MATERIALS Au/C FOR LOW-VOLTAGE ELECTRONICS. *[1]Institute of Coal Chemistry and Materials Science SB RAS, Kemerovo, Russia. [2]Kemerovo State University, Kemerovo, Russia*
12:50 – 13:10	O13	L.B. Okhlopkova[1], M.A. Kerzhentsev[1], Z.R. Ismagilov[1,2] . Thermally stable mesoporous CeO2/TiO2 coating for microcapilary application. *[1]Boreskov Institute of Catalysis, Novosibirsk, Russia; [2]Institute of Coal Chemistry and Material Science, Kemerovo, Russia*
		Lunch Break
		Section 2. Theory
14:10 – 14:40	I6	M. P. Anisimov. HETEROGENEOUS AND HOMOGENEOUS NUCLEATION IN APPLICATION TO COATINGS. *Technological Design Institute of Scientific Instrument Engineering (TDI SIE), SB RAS, Novosibirsk, Russia; Novosibirsk State Technical University, Russia.*
14:40 – 15:00	O14	A.B. Kaplun. THE USE OF PHASE DIAGRAMS FOR SURFACE SCIENCE. *Institute of Thermophysics SB RAS, Novosibirsk, Russia*
15:00 – 15:40	O15	Karimov K.R., Chernov Ya.B., Chebykin V.V., Filatov Ye.S. THERMODYNAMIC MODELING OF ALUMINIUM COATING FORMATION ON TITANIUM IN POWDER MIXTURE. *Institute of High Temperature Electrochemistry of the Ural Branch of the Russian Academy of Sciences,Ekaterinburg, Russia*
15:25 – 16:00	O16	S.Yu. Tarasov[1,2], V.P. Kuznetsov[3], A.I. Dmitriev[1,4] . THE TRIBOLOGICAL ASPECT OF NANOSTRUCTURING BURNISHING. *[1]Institute of Strength Physics and Materials Science SB RAS ,Tomsk, Russia; [2]National Research Tomsk Polytechnical University, Tomsk, Russia; [3]Kurgan State University, Kurgan, Russia; [4]National Research Tomsk State University, Tomsk, Russia*
16:00 – 16:30		Coffee Break
		Section 3. Surface analysis and diagnostics
16:30 – 17:00	I7	Seung Min Lee, Jong Sik Kim, Sang Kwon Lee. SURFACE DIAGNOSTICS OF SPUR GEAR SYSTEM BASED ON CROSS COHERENCE ANALYSIS OF VIBRATION SIGNALS. *Inha University, Korea*
17:00 – 17:20	O17	Biryukov A.P., Surin V.I., Cheburkov V.I., Evstukhin N.A. THERMOELECTRIC METHOD FOR THICKNESS MEASUREMENT OF METAL COATING *National Research Nuclear University, Tomsk, Russia*
17:20 – 17:40	O18	A.I. Stadnichenko[1,2], L.S. Kibis[1,2], D.A. Svintsitskiy[1,2], S.V. Koscheev[1], A.I. Boronin[1,2] OXIDE LAYERS ON THE SURFACES OF IB GROUP METALS (CU, AG, AU) POLYCRYSTALLINE FOILS PRODUCED BY RF DISCHARGE IN OXYGEN: XPS AND TPD STUDY *1 - Boreskov Institute of Catalysis SB RAS, Russia, 2 – Novosibirsk State University, Russia*
17:40 – 20:00		Poster Section 2

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		Section 3. Surface analysis and diagnostics
9:30 -10:00	I8	E. V. Sysoev, R. V. Kulikov, V. V. Shirokov, I. A. Vykhristyuk. TWO-WAVELENGTH INTERFERENCE METHOD FOR NANOFILM THICKNESS MEASUREMENTS. *Technological Design Institute of Scientific Instrument Engineering (TDI SIE), SB RAS, Novosibirsk, Russia*
10:00– 10:20	O19	P.O. Maruschak[1], S.V. Panin[2], I.M. Danyliuk[1], L.Y. Poberezhnyi[3], T.Y. Pyrig[3], R.T. Bishchak[3], STRUCTURAL AND MECHANICAL DEFECTS OF MATERIALS OF OFFSHORE AND ONSHORE MAIN GAS PIPELINES AFTER A LONG-TERM OPERATION. *[1]Ternopil National Ivan Pul'uj Technical University, Ternopil, Ukraine, [2]Institute of Strength Physics and Materials Sciences SB RAS, Tomsk, Russia, [3]Ivano-Frankivsk National Technical University of Oil and Gas, Ivano-Frankivsk, Ukraine*
10:20 - 10:40	O20	Kukharchik Alexander[1,2], Kamanina Natalia[1,2] STUDY OF THE SURFACE TOPOGRAPHY OF THIN-FILM CONDUCTIVE NANOSTRUCTURES COATINGS AND THE RELATIVE EFFECTS. *[1]Vavilov State Optical Institute, St.- Petersburg, Russia. [2] St.-Petersburg Electrotechnical University ("LETI"), St. Petersburg, Russia*
10:40 – 11:00	O21	Nagavkin S.Yu.[1], Tyurin A.G.[1], Malikov A.G.[2], Orishich A.M.[2]. INVESTIGATION OF THE WC-Co HARD ALLOY SURFACE LAYER STRUCTURE AFTER LASER TREATMENT. *[1]Novosibirsk State Technical University, Russia; [2]Khristianovich Institute of Theoretical and Applied Mechanics SB RAS, Novosibirsk, Russia*
11:00 – 11:30		Coffee Break
		Section 4. Surface treatment and modification
11:40 – 12:10	I9	Kh. M. Rakhimyanov, Iu.S. Semenova. SURFACE STATE CONTROLLING AT THE FINISHING PROCESSING STAGE BY ULTRASONIC PLASTIC DEFORMATION. *Novosibirsk State Technical University, Russia*
12:10 – 12:30	O22	I.I. Artemov, V.D. Krevchik, N.P. Simonov, R.V. Zaytsev. APPLICATION OF CAVITATION TECHNOLOGIES AND NANO-MODIFIERS OF THE PROCESS FLUID IN THE SURFACE ENGINEERING OF MACHINE PARTS. *Penza State University, Russia*
12:30 – 12:50	O23	Panin S.V.[1,2], Moiseenko D.D.[1], Vlasov I.V.[1,2], Maksimov P.V.[1], Sergeev V.P.[1,2], Maruschak P.O.[3], Panin V.E.[1,2] IMPROVING FATIGUE DURABILITY OF 12Cr1MoV STEEL BY ZR^{+} ION BEAM IRRADIATION. *[1] ISPMS SB RAS, Tomsk, Russia, [2]Tomsk, Polytechnic University, Tomsk, Russia, [3]Ternopil National Technical University, Ternopil, Ukrain*
12:50 – 13:10	O24	Skeeba V.Yu., Pushnin V.N., Erohin I.A., Kornev D.Yu. INTEGRATION OF PRODUCTION STEPS ON A SINGLE EQUIPMENT. *Novosibirsk State Technical University, Russia*
		Lunch Break
14:10 – 14:40	I10	N.F. Uvarov[1,2], V.N. Kruchinin[3] Ellipsometric control of anodizing process. *[1]Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia; [2]Novosibirsk State Technical University, Novosibirsk, Russia; [3]Institute of Semiconductors Physics. Novosibirsk, Russia.*
14:40 – 15:00	O25	Kondrikov N.B.[1], Zaichenko A.S.[1], Kuriaviy V.G.[2], Kirillov A.V.[1],

		Plotnikov V.S.[1] THE FORMATION AND INVESTIGATION OF TEXTURE AND IMPEDANCE PARAMETERS OF NANSTUCTURED TITANIUM DIOXIDE, RECEIVED BY ANODIC OXIDATION. *[1]Far-Eastern Federal University, Vladivostok, Russia, [2]Institute of Chemistry, Far-Eastern Branch of RAS, Vladivostok, Russia*
15:00 – 15:40	O26	Shelkovnikov V.V., Korotaev S.V., Lubas G.A., CONTROLLED INTERFERENCE COLOR OF THE METAL SURFACE BY COMBINATION OF THE CHEMICAL AND ELECTROCHEMICAL ALUMINUM SURFACE TREATMENT. *Novosibirsk Institute of Organic Chemistry N.N. Vorozchtcov SB RAS, Novosibirsk*
15:25 – 16:00	O27	Grekova A.D.[1,2], Nikulin V.V.[1], Yatsenko D.A.[1,2], Girnik I.S.[1,2], Shkatulov A.I.[1,2] Tokarev M.M.[1]. INTENSIFICATION OF HEAT TRANSFER IN ADSORPTION HEAT TRANSFORMERS: NEW COMPOSITE MATERIAL BASED ON ANODIC ALUMINA. *[1] Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia, [2]Novosibirsk State University, Novosibirsk, Russia*
16:00 – 16:30		General Discussion
16:30 – 17:00		Closing Ceremony
18:00 – 20:00		Banquet

3 July 2014
Excursions
Departure of participants

Poster Presentations

	Poster Session 1 30 June 2014, 16:00 – 18:00
P1	V. Prokip, A. Utkin, N. Baklanova. SURFACE AND PROPERTIES OF SOL-GEL DERIVED HfGeO4 FILMS. *Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia*
P2	Chevakinskaya A.A.[1], Lizunkova Ya.S.[2], Smirnov A.I.[1], Nikulina, A.A.[1] FORMATION OF HIGH-STRENGTH STRUCTURE IN A SURFACE LAYER AFTER HSS 1.3343 SATURATION BY ATMOSPHERIC PLASMA NITRIDING *[1]Novosibirsk State Technical University, Novosobirsk, Russia; [2]Institute of Materials Science, Leibnitz University Hannover, Germany*
P3	Rybin V.A. , Baklanova N.I. ALKALI RESISTANT TiO_2- AND ZrO_2-COATED BASALT FIBER *Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia*
P4	A.B. Berkin, V.V. Deryabina, S.V. Veselov . THE CHANGE OF THE CALCIUM PHOSPHATE FILMS SURFACE MORPHOLOGY DURING THEIR FORMATION. *Novosibirsk State Technical University, Novosibirsk, Russia*
P5	D.O. Mul[1], D.S. Krivezhenko[1], M.G. Golkovski[2], I.A. Bataev[1], O.G. Lenivtseva[1], P.N. Komarov[1] STRUCTURE AND PROPERTIES OF COATINGS OBTAINED BY ELECTRON-BEAM ALLOYING AT AIR ATMOSPHERE. *[1]Novosibirsk State Technical University, [2] Budker Institute of Nuclear Physics, Novosibirsk, Russia*
P6	Kulyashova Ksenia, Sharkeev Yurii, Glushko Yurii, Sainova Aizhan MECHANICAL

	PROPERTIES OF BIOACTIVE CALCIUM PHOPHATE COATINGS DEPOSITED BY RF-MAGNETRON METHOD ON BIOINERT METALS. *Institute of Strength Physics and Materials Science of Siberian Branch Russian Academy of Sciences (ISPMS SB RAS), Tomsk, Russia*
P7	Forostyanaya N.A.[1], Maskaeva L.N.[1,2], Markov V.F. [1,2] STUDY OF $Cd_xPb_{1-x}S$ THIN FILMS IN DEPENDING ON THE EXPERIMENTAL CONDITIONS. *[1] Ural Federal University named after the First President of Russia B.N. Yeltsin, Ekaterinburg, Russia; [2] Ural Institute of State Fire Service of EMERCOM of Russia, Ekaterinburg, Russia*
P8	S.A. Serenko. OBTAINING TRANSPARENT CONDUCTING FILM FOR ELECTROCROMIC DEVISE OF THERMAL DECOMPOSITION METHOD. *Novosibirsk State Technical University, Novosibirsk, Russia*
P9	Rakhimyanov Kh.M.[1], Loktionov A.A.[2] . QUALITY AND ACCURACY ESTIMATION OF SHEET MATERIALS CUTTING IN THE CONDITIONS OF HIGH-PRECISION PLASMA CUTTING. *[1,2] Novosibirsk State Technical University, Novosibirsk, Russia*
P10	Rakhimyanov Kh.M.[1], Gaar N.P.[2] . NTENSIFICATION OF ANODIC DISSOLUTION OF CONDUCTIVE MATERIALS BY LASER RADIATION. *[1,2] Novosibirsk State Technical University, Novosibirsk, Russia*
P11	Sergei A. Ozerin[1], S.A. Zavyalov[2,3], D.R. Streltsov[1], A.S. Orekhov[2], A.A. Nesmelov[1], A.Yu. Vdovichenko[2], Ya.V. Zubavichus[2], S.N. Chvalun[1,2] METAL (SEMICONDUCTOR) / POLYMER NANOCOMPOSITE FILMS SYNTHESIZED BY LOW-TEMPERATURE VAPOR DEPOSITION POLYMERIZATION. STRUCTURE AND PROPERTIES. *[1]Enikolopov Institute of Synthetic Polymer Materials RAS, Moscow, Russia; [2]National Research Centre "Kurchatov Institute", Moscow, Russia; [3]Karpov Institute of Physical Chemistry, Moscow, Russia*
P12	Plotnikova N.V., Nikitenko E.A., Skeeba V.Yu. THE PERSPECTIVE OF INDUCTION HEATING APPLICATION FOR STEEL SURFACE SATURATION WITH CARBON. *Novosibirsk State Technical University, Novosibirsk, Russia*
P13	Lozanov V.V.[1], Baklanova N.I.[2] MICROSTRUCTURE AND PHASE COMPOSITION OF TANTALUM AND HAFNIUM CARBIDE COATINGS *[1,2]Institute of Solid State Chemistry and Mechanochemistry SB RAS, Novosibirsk, Russia*
P14	Murtazin R.M., Safarov D.T., Kondrashov A.G. WEAR OF WORKING SURFACES AS FACTOR OF OPERABILITY OF MACHINE PARTS. *Branch of Kazan Federal University in Naberezhnye Chelny, Russia*
P15	Smirnova Z.I.[1], Maskaeva L.N.[1], Markov V.F.[1], Voronin V.I.[2], Kuznetsov M.V.[3] OBTAINING $Pb_{1-x}Sn_xSe$ THIN SILM SOLID SOLUTIONS FROM AN AQUEOUS MEDUM VIA AN ION-EXCHANGE PROCESS. *[1] Ural Federal University named after the First President of Russia B.N.Yeltsin, Yekaterinburg, Russia; [2] Institute of Metal Physics, Ural Branch, Russian Academy of Sciences, Yekaterinburg, Russia; [2] Institute of Solid State Chemistry, Ural Branch, Russian Academy of Sciences, Yekaterinburg, Russia*
P16	A.I. Bumagina, A.I. Ryabchikov, D.O. Sivin. INFLUENCE OF SUBSTRATE CHARACTERISTICS AND NEGATIVE BIAS PARAMETERS TO THE RATE OF VACUUM ARC MACROPARTICLES ACCUMULATION. *National Research Tomsk Polytechnic University, Tomsk, Russia*
P17	V.V. Denisov, Yu.H. Akhmadeev, V.V. Yakovlev, I.V. Lopatin, P.M. Schanin, S.S. Kovalskiy, N.N. Koval PULSED NON-SELF SUSTAINED GLOW DISCHARGE WITH LARGE HOLLOW CATHODE FOR NITRIDING OF ALLOYS BASED ON IRON AND TITANIUM. *Institute of High Current Electronics SB RAS, Tomsk, Russia,*
P18	O.V. Popova, E.A. Maryeva, D.I.Chernobrovkina, SYNTHESIS OF TITANIUM NITRIDE BY ANODIC POLARIZATION OF TITANIUM SURFACE *Southern Federal University, Taganrog, Russia*
P19	Ilya Vlasov[1,2], Sergey Panin[1,2], Viktor Sergeev[1,2], Vasilii Naidfeld[2], Mark Kalashnikov[2], Oleg Bogdanov[1], Boris Ovechkin[1] VACUUM-ARC ION-BEAM SURFACE TREAMENT OF

	12Cr1MoV AND 30CrMnNSiNi2 STEELS. [1]*Tomsk Polytechnic University, Tomsk, Russia;* [2]*Institute of Strength Physics and Materials Science SB RAS, Tomsk, Russia*
P20	Kornienko E.E.[1], Nikulina A.A.[1], Lapushkina E.U.[1], Kuz'min V.I.[2], Kartaev E.V.[2], Sergachev D.V.[2] STRUCTURAL RESEARCH OF BORON CARBIDE COATINGS RECEIVED BY PLASMA SPRAING. [1]*Novosibirsk State Technical University;* [2] *Khristianovich Institute of Theoretical and Applied Mechanics SB RAS, Novosibirsk, Russia*
P21	Karimov K.R., Chernov Ya.B., Chebykin V.V., Pankratov A.A., Filatov Ye.S. ALUMINIDE THERMAL DIFFUSION PLATING ON METALS AND ALLOYS IN POWDER MIXTURES AT SURFACE MECHANOCHEMICAL ACTIVATION. *Institute of High Temperature Electrochemistry of the Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Russia*
P22	O.P. Terleeva[1], A.I. Slonova[1] , A.B. Rogov[1], I.V. Mironov[1] , Yu.P. Sharkeev[2] EFFECT OF ELECTRICAL MODES AND MAGNESIUM ADDITIONS ON THE CHARACTERISTICS OF BIOACTIVE CALCIUM PHOSPHATE (CA–P) CONTAINING COATINGS ON TITANIUM. [1]*Nikolaev Institute of Inorganic Chemistry of SB RAS, Novosibirsk, Russia;* [2]*Institute of Strength Physics and Materials Science, of SB RAS, Tomsk, Russia*
P23	Chernetsov[1] V.P., Shelkovnikov[1] V.V., Golitsyn[2] A.V., Vasilyev E.V.[1] INVESTIGATION OF ELECTROWETTING EFFECT ON TITANIUM SURFACE WITH THE DIELECTRIC LAYERS BASED ON MODIFIED POLYVINYL ALCOHOL. [1] *Novosibirsk Institute of Organic Chemistry SB RAS;* [2] *Technological Institute of Applied Microelectronics SB RAS, Novosibirsk, Russia*
P24	P.O. Rusinov, Zh.M. Blednova, E.Y. Balayev FORMATION FOR MULTI-SURFACE LAYERS OF MATERIAL SHAPE MEMORY TINICU HIGH-FLAME SPRAYING [1] *Kuban State University of Technology, Krasnodar, Russia*
P25	M.V. Popov, G.G. Kuvshinov STUDY OF THE SURFACE OF CARBON NANOFIBERS DEPENDING ON THE SYNTHESIS CONDITIONS. *Novosibirsk State Technical University, Russia*
P26	
P27	
	Poster Session 2 2 June 2014, 18:00 – 20:00
P28	A.B. Rogov The influence of the electrical parameters on the microplasma coating structure on aluminum A2024 alloy *Nikolaev institute of inorganic chemistry, Novosibirsk, Russia*
P29	N.A. Sabirzyanov, S.V. Borisov, E.A. Bogdanova, A.G. Shirokova, I.G. Grigorov, O.P. Shepatkovsky, V.L. Kozhevnikov THE FUNCTIONAL COATINGS OF BIOCOMPOSITES. *Federal State government-financed institution of science Institute of Solid State Chemistry of the Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Russia*
P30	N.A. Sabirzyanov, V.M. Skachkov, S.P. Yatsenko, L.A. Pasechnik. THE INFLUENCE OF THE SOLID COMPONENTS OF DIFFUSION-HARDENING ALLOYS ON THE PROPERTIES OF THE CONNECTING LAYER. *Federal State government-financed institution of science Institute of Solid State Chemistry of the Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Russia*
P31	V. V. Bolotov [1], V. E. Roslikov [1], K. E. Ivlev [1], E. V. Knyazev [1] Fabrication of Two-Layer Composite-on-Insulator Structures Based on Porous Silicon and SnO_x and Gas-Sensing Properties. [1]*Omsk Scientific Center, Siberian Branch of the Russian Academy of Sciences, Omsk, Russia*
P32	Bibanaeva S.A. , Shevchenco V.G. INTERACTION OF ALUMINUM ALLOY POWDERS

	WITH WATER. *Federal State government-financed institution of science Institute of Solid State Chemistry of the Ural Branch of the Russian Academy of Sciences, Ekaterinburg, Russia*
P33	Belobaba A.G., Zelinsky A.G., Gusev A.A., Masliy A.I. ELECTROCHEMICAL STABILITY OF INDIUM-TIN OXIDES (ITO). *Institute of Solid State Chemistry and Mechanochemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia*
P34	V. Makarov, S.Nikitin INFLUENCE OF CUTTING MODES ON SURFACE QUALITY OF PARTS MADE OF HEAT-RESISTANT ALLOYS DURING DEEP GRINDING. *Perm National Research Polytechnic University, Perm, Russia*
P35	G.A. Pribytkov, V.V. Korzhova. COATINGS DEPOSITED AT VACUUM-ARC EVAPORATION OF Al-Cr, Al-Cr-Si POWDER CATHODES IN VARIOUS GASEOUS MEDIA. *Institute of Strength Physics and Materials Science, Tomsk, Russia*
P36	Zh. G. Kovalevskaya[1, 2], M. A. Khimich[3], S. V. Veselov[4], O. A. Belavskaya[1], A. I. Tolmachov[1], P. N. Komarov[4] STUDYING OF THE COATING ON THE SURFACE OF THE STEEL SUBSTRATE MADE OF SERPENTINE'S POWDER. *[1]Institute of Strength Physics and Material Science SB of RAS, Tomsk, Russia; [2]National Research Tomsk Polytechnic University, Tomsk, Russia; [3]National Research Tomsk State University, Tomsk, Russia; [4]Novosibirsk State Technical University, Novosibirsk, Russia*
P37	S.I. Yusin[2]. A.G. Bannov[2], A.A. Timofeeva[2] SYNTHESIS BY ELECTROPHORESIS OF COMPOSITE ELECTROD ON BASIS OF CARBON MATERIALS AND OXIDE/HYDROXIDE METALS. *[1]Institute of Solid State Chemistry SB RAS, Novosibirsk, Russia; [2]Novosibirsk State Technical University, Novosibirsk, Russia*
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