

Sunday - August 25, 2019

16:00-18:00	Registration
18:00-20:00	Official Welcome

Monday - August 26, 2019

A Session Chair: Gennady Remnev	09:00	Opening Ceremony
	09:10	PL: Vladimir Chernysh (Russia) - Interaction of gas cluster ions with solids: experiment and computer simulations
	09:55	PL: Liangting Sun (China) - Low energy heavy ion accelerator facilities in IMP for material radiation research
	10:40	<i>Coffee-break</i>
A Session 1: Ion Beam Processing of Materials Chair: Vladimir Chernysh	11:00	I 1-1 David Tetelbaum (Russia) Ion-beam modification of Si and SiO ₂ /Si structures for the development of light-emitting silicon-based devices
	11:30	I 1-2 Gennady Remnev (Russia) High-power pulsed ion accelerators and their practical application
	12:00	I 1-3 Noriaki Matsunami (Japan) Modifications of WNO _x films by keV D and H ions
	12:30	O 1-1 Jerzy Żuk (Poland) Structure and optical properties of ZnO-SiO ₂ nanocomposite synthesized by high-fluence implantation and subsequent annealing
	12:50	<i>Lunch</i>
Chair: Liangting Sun	14:00	O 1-2 Melanie Clozel* (Poland) Investigation of the nanomechanical properties of ion-irradiated ferritic-martensitic steels with different chemical compositions using nanoindentation
	14:20	O 1-3 Xiaonan Zhang* (P.R. China) The structural thermal stability of the Fe ₈₀ Si ₇ B ₁₃ alloys under the irradiation of high-intensity pulsed ion beam
	14:40	O 1-4 Irina Kurzina (Russia) Surface property modification of biocompatible polymer materials by ion implantation and electron beam treatment
	15:00	O 1-5 Krzysztof Siemek (Poland) Positron annihilation studies of ultra-fine grain Ti irradiated with 167 MeV Xe ²⁶⁺ heavy ions
	15:20	O 1-6 Andrzej Olejniczak (Russia) Modification of graphene oxide films with swift heavy ions: changes in the electrical and structural properties
	15:40	O 1-7 Ruslan Rymzhanov* (Russia) Picosecond surface kinetics of swift heavy ion irradiated insulators
		16:00
	16:30	<i>Photographing</i>
Poster Session 1: Ion beam processing of materials Chair: Irina Kurzina	16:40 – 18:00	P 1-1 – P 1-40

Tuesday - August 27, 2019

A Session Chair: Wolfgang Ensinger	09:00	PL: Andre Anders (Germany) - Plasma physics of sputtering magnetrons			
	09:45	PL: Jindrich Musil (Czech Republic) - Advanced hard nanocoatings deposited by magnetron sputtering: role of energy			
	10:30	<i>Coffee-break</i>			
A Session 2: Ion-assisted coating deposition Chair: Koumei Baba	11:00	I 2-1 Koumei Baba (Japan) Plasma source ion implantation: from research setups to large-scale industrial applications	B Session 1: Ion Beam Processing of Materials Chair: Luc Pichon	11:00	I 1-4 Luc Pichon (France) About low temperature nitriding mechanism of FCC-nickel-based alloys by plasma immersion
	11:30	I 2-2 Valery Krivibokov (Russia) Metal coatings deposition using hot target magnetrons		11:30	I 1-5 Alexander Ryabchikov (Russia) Progress in high intensity, low ion energy implantation method development
	12:00	O 2-1 Tiancheng Wang* (P.R. China) Magnetic field induced ion motion in vacuum arc deposition for interior surfaces		12:00	O 1-8 Tran Van Phuc* (Vietnam) Investigations of elemental depth distribution and chemical compositions in the multilayer structures of TiO ₂ /SiO ₂ /Si after ion irradiation
	12:20	O 2-2 Alexey Vereschaka (Russia) Study of specifics in nanolayer composite coating formation using filtered cathodic vacuum arc deposition (FCVAD) technology		12:20	O 1-9 Haowen Zhong (P.R. China) The influence of metal surface topography on ablation behavior during intense pulsed ion beam irradiation
	12:40	<i>Lunch</i>			
A Session 2: Ion-assisted coating deposition Chair: Andre Anders	14:00	O 2-3 Hui Sun* (P.R. China) Microstructures and optoelectronic properties of NiO films deposited by high power impulse magnetron sputtering	B Session 1: Ion Beam Processing of Materials Chair: David Tetelbaum	14:00	O 1-10 Xianxiu Mei (P.R. China) Damage behaviour of Fe-based metallic glass under He and H ions irradiation
	14:20	O 2-4 Dmitry Sidelev* (Russia) Nickel and chromium deposition by hot target magnetron sputtering		14:20	O 1-11 Samit Kumar Mandal (India) Critical usage of erbium for radiation shielding for advanced applications

	14:40	O 2-5 Olga Krysinina (Russia) Influence of ion-plasma assistance on the composition, structure and properties of wear-resistance nitride coatings		14:40	O 1-12 Sunmog Yeo* (S.Korea) Ion bombardment effects on polycarbonate
	15:00	O 2-6 Vladimir Denisov* (Russia) Generation of beam plasma formations in a non-self-sustained glow discharge with a hollow cathode for ion nitriding of steels		15:00	O 1-13 Elke Wendler (Germany) Structural and optical properties of Si hyperdoped with Te by ion implantation and pulsed laser annealing
	15:20	O 2-7 Yury Sharkeev (Russia) RF-magnetron sputtering of calcium phosphates for medical implants: structure and properties		15:20	O 1-14 Haowen Zhong (P.R. China) Crater evolution on surface morphology of metallic material under intense pulsed ion beam irradiation
	15:40	O 2-8 Oksana Bytsenko (Russia) Microstructure, fatigue strength and erosion resistance of MAX-phase embedded Ti-Si-B nanostructured coatings on Ti-6Al-4V		15:40	O 1-15 Valeria Kostenko* (Russia) Surface modification of $ZrO_2-3Y_2O_3$ ceramics with continuous Ar^+ ion beams
	16:00	O 2-9 Yulei Yang* (P.R. China) Influence of combined nitrogen implantation on adhesion strength of TiAlN film on TiAl alloy		16:00	O 1-16 Vikas Kumar* (India) Swift heavy ion beam induced modifications in structural, optical, chemical and morphological properties of SnO_2-TiO_2 nanocomposite thin films
	16:20	<i>Coffee-break</i>			
Poster Session 2: Ion-assisted coating deposition Chair: Anatoly Kupchishin	16:50 – 18:00	P 2-1–P 2-11			

Wednesday - August 28, 2019

A Session 4: Defect engineering, nano-science and technology Chair: Xiaoyun Le	09:00	I 4-1 Wolfgang Ensinger (Germany) Damage tracks of high energy ions in polymers and their use for fabricating 1-dimensional nanostructures	B Session 6: Biomedical and industrial applications Chair: Dong-Hai Zhang	09:00	I 6-1 Alexander Tikhonov (Kazakhstan) New high-current pulsed ion accelerator facility INURA at Nazarbayev University: first results and new opportunities for advanced materials and nanoscience
	09:30	I 4-3 Vladimir Uglov (Belarus) Tolerance of multilayered systems MeN/Si ₃ N ₄ (Me=Cr, Zr, Al) to radiation erosion		09:30	I 6-2 Jae-Sung Kim (Korea) Nanoscale pattern formation at surfaces in unconventional formats
	10:00	O 4-1 Pawel Horodek (Poland) Positron annihilation studies of irradiation induced defects in gold and niobium		10:00	I 6-3 Feng Liu (P.R. China) Ultra-high selective and permeable ion sieve fabricated with irradiated polymer membranes
	10:30	<i>Coffee-break</i>			
A Session 4: Defect engineering, nano-science and technology Chair: Alexander Ryabchikov	11:00	O 4-2 Miroslaw Kulik (Russia) Studies of InAs formation in indium implanted GaAs exposed to annealing	B Session 6: Biomedical and industrial applications Chair: Valery Krivibokov	11:00	O 6-1 Mikhail Slobodyan (Russia) Effect of surface modification of Zr-1%Nb alloy on corrosion resistance and high-temperature oxidation
	11:20	O 4-3 Victor Paperny (Russia) Fabrication of metal-dielectric nanocomposites using a table-top ion implanter		11:20	O 6-2 Alexey Remnev (Japan) Chemical and physical aspects of ion beam sharpening of medical needle
	11:40	O 4-4 Jialong He (P.R. China) Preliminary experimental study on the effects of low-energy titanium ion beam irradiation on secondary electron emission characteristics of metal materials		11:40	O 6-3 Andrey Solovyev (Russia) Reactive dual deep oscillation magnetron sputtering of Al ₂ O ₃ films

	12:00			12:00	O 6-4 Yunhan Ling (P.R. China) Surface chemistry and electronic structure of passive film on N18 zircaloy with krypton irradiation
	12:20	<i>Lunch</i>			
A Session 5: New accelerator systems and tools for materials research Chair: Efim Oks	14:00	I 5-1 Tomohiro Kobayashi (Japan) Small accelerator-driven neutron source for material analysis			
	14:30	I 5-2 Ian Brown (USA) Some reflections on very large scale ion beam surface modification			
	15:00	O 5-1 Gaolong Zhang (P.R. China) The test of silicon strip detector for heavy-ion nuclear reaction	B Session 6: Biomedical and industrial applications Chair: Jae-Sung Kim	15:00	O 6-6 Vyacheslav Chudinov* (Russia) Medical polyurethane modified by ion beam
	15:20	O 5-2 Vladislav Ryzhkov (Russia) Radioactivation control of energy and number of protons and deuterons collectively accelerated in Luce diodes		15:20	O 6-7 Gulsharat Baigonakova* (Russia) Blood platelets adhesion to an intermetallic coating made by SHS using magnetron sputtering Ti-Ni-Ti nano-laminate
	15:40			15:40	O 6-8 Pavel Maryin* (Russia) Time-stable wetting effect of plasma-treated biodegradable scaffolds covered with graphene oxide
	16:00	<i>Coffee-break</i>			

<p>Poster Session 3: Basic mechanisms, theory and fundamental</p> <p>Chair: Alexander Ligachev</p>	<p>16:30 – 18:00</p>	<p>P 3-1– P 3-12</p>	<p>Poster Session 5: New accelerator systems and tools for materials research</p> <p>Chair: Alexander Ligachev</p>	<p>16:30 – 18:00</p>	<p>P 5-1–P 5-7</p>
<p>Poster Session 4: Defect engineering, nano-science and technology</p> <p>Chair: Alexander Ligachev</p>		<p>P 4-1–P 4-17</p>	<p>Poster Session 6: Biomedical and industrial applications</p> <p>Chair: Alexander Ligachev</p>		<p>P 6-1–P 6-5</p>

Thursday - August 29, 2019

A Session 3: Basic mechanisms, theory and fundamental Chair: Yan Sha, Gennady Remnev	09:00	I 3-1 Yan Sha (P.R. China) Intense pulsed ion beam applications on metals modification and test	B Session 2: Ion-assisted coating deposition Chair: Xiubo Tian	09:00	I 2-3 Xiubo Tian (P.R. China) Pulsed high-power discharge and arc for deposition of carbon based films
	09:30	I 3-2 Anatoliy Kupchishin (Kazakhstan) Computer modeling of pka energy spectra and concentration of vacancy clusters irradiated by light ions		09:30	I 2-4 Efim Oks (Russia) Generation of «unusual» ion beams based on discharge systems of vacuum arc and hollow cathode glow
	10:00	O 3-1 Wei Zhao (P.R. China) Simulation studies on secondary electron emission characteristics of metal materials radiated by ions of the order of 100 keV		10:00	O 2-10 Konstantin Prosolov* (Russia) Effect of glancing angle deposition to the morphology of calcium phosphate thin coatings
	10:20	O 3-2 Vladimir Ovchinnikov (Russia) The law of independence of the emission spectra of metal targets from energy and the mass of implanted ions		10:20	O 2-11 Hongfei Shang* (P.R. China) Preparation, properties and application of composite microparticles
	10:40	<i>Coffee-break</i>			
A Session 3: Basic mechanisms, theory and fundamental Chair: Vladimir Uglov	11:10	O 3-3 Mikołaj Gołuński* (Poland) Molecular dynamics of free-standing graphene bombarded with keV Ar _n clusters			
	11:30	O 3-4 Dong-Hai Zhang (P.R. China) Fragmentation of carbon on elemental targets at 290 A MeV			
	11:50	O 3-5 Michał Kański* (Poland) Effect of the impact angle on the angular distributions of β-carotene sputtered by 15keV Ar ₂₀₀₀			

	12:10	O 3-6 Efrem Makarov* (Russia) Post-cascade waves instead of temperature. Low atomic ordering temperatures at depth far beyond ion range			
	12:30	<i>Lunch</i>			
	14:00	Closing Ceremony, Young Researcher Award Ceremony			
Chair: Jindrich Musil	16:00	Andre Anders Lecture on the preparation of reports publication			
	18:00	Conference Banquet			

Friday – August 30, 2019

09:00-19:00	Social program
-------------	-----------------------

Poster Session 1

Ion beam processing of materials, Monday - August 26, 2019

Session	Name	Poster Title
P 1-1	Alexey Shevelev*	Microstructure of titanium alloy modified by high-intensity implantation of low- and medium-energy aluminum ions
P 1-2	Anna Kosińska*	Studies of the electrical properties of ion irradiation polymer materials
P 1-3	Monica Duchna*	Effect of ion irradiation on the structure of Inconel made by 3D printing method
P 1-4	Agata Zaborowska*	Influence of ion irradiation on the nanomechanical and structural properties of thin alumina coatings
P 1-5	Boris Lemeshko	Interaction of plasma jets and ion beams of a plasma focus device with the surface of chromium steel
P 1-6	Alexey Podanev*	Structural-phase state of copper substrate under surface treatment by intense flux of Ti and Zr ions
P 1-7	Alexander Ligachev	Pulsed ion beam induced changes in a topography of the surface layers of titanium
P 1-8	Olga Korneva	Modification of microstructure and properties of martensitic stainless steel by high-intensity implantation of nitrogen ions
P 1-9	Georgy Modebadze*	Temperature gradients in the irradiated targets during high-intensity implantation and their influence on ion-modified layer properties
P 1-10	Ľubomír Gabriš*	Pattern formation on metallic surfaces induced by plasma immersion ion implantation
P 1-11	Giovanni Ceccio*	Effect of He ⁺ irradiation of Ti ₂ InC at different ion beam fluences
P 1-12	Yan Sha	Experimental and numerical simulations of cracking behaviors on tungsten under high intense pulsed ion beam irradiation
P 1-13	Pavol Noga	Ion beam synthesis of AuAg@Ag core/shell bimetallic nanoparticles in TiN
P 1-14	Vladislav Tarbokov	Combined method of cutting tool treatment
P 1-15	Shijian Zhang	Defects formation and evolution on ceramics irradiated by intense pulsed ion beams
P 1-16	Olesya Laput*	Zn, Mg, Ag ion implantation of polylactic acid
P 1-17	Yurii Ivanov	Comprehensive electron-ion-plasma modification of Al-Si alloy surface
P 1-18	Vladimir Ovchinnikov	Restoration of ductility of cold-deformed aluminum alloys by short-term irradiation with accelerated Ar ⁺ ions
P 1-19	Valeria Kostenko*	Surface modification of ZrO ₂ -3Y ₂ O ₃ ceramics with high-intensity pulsed N ₂ ⁺ ion beams
P 1-20	Ivan Zhidkov	XPS characterization of surface layers of stainless steel nitrated in electron beam plasma
P 1-21	Yulia Rubannikova*	Structure and phase states modification of Al-Si alloy by the ion-plasma jet and pulsed electron beam treated
P 1-22	Wolfgang Ensinger	Retardation of corrosion induced hydrogen embrittlement of tantalum by ion beam surface alloying with platinum
P 1-23	Umirzakov Baltakhadja	Influence of the formation nickel silicide on resistivity of silicon
P 1-24	Gwomei Wu	Study of fabrication and characterization of title: high power 850 nm vertical-cavity surface-emitting laser arrays
P 1-25	Tazhen Aigerim	Interaction of pulsed plasma with the surface of the material and dust formation

*Young Researcher Award

P 1-26	Marat Kaikanov*	Pulsed ion beam irradiation of silver nanowire networks for use in transparent conductive films
P 1-27	Abdirash Akilbekov	High energy ionoluminescence of Al ₂ O ₃ and LiF: time resolved studies
P 1-28	Juraj Halanda	High fluence Fe implanted polyethylene surface characterization
P 1-29	Egor Korenevski	The effect of plasma Ar and Xe on surface roughness of fuel cladding tube
P 1-30	Alexey Romshin	Nanodiamond luminescence in hemispherical Fabry-Perot microcavity fabricated by FIB
P 1-31	Geliy Potemkin	Craters on the surface metal after HPIB of carbon ions
P 1-32	Valentina Poltavtseva	Modification of titanium nickelide by irradiation with heavy ions of inert gases
P 1-33	Denis Sivin	High-intensity implantation of metal ions in conditions of minimizing ion sputtering of the material surface
P 1-34	Marat Kaikanov*	Modification of sputter deposited silver nanostructures with thermal annealing vs pulsed ion beam irradiation
P 1-35	Artem Kozlovskiy*	Study of the effect of various types of irradiation on ceramic materials
P 1-36	Artem Kozlovskiy*	The use of pulsed beams for increasing radiation resistance of AlN ceramics
P 1-37	Zaki Adam Yousif Abdalla	Diffusion behaviour of selenium implanted into polycrystalline SiC
P 1-38	Mikhail Mikhailov*	Comparison of the optical properties degradation of oxide micro- and nanopowders irradiated by 100 keV protons
P 1-39	Alexey Lapin*	Effect of proton irradiation on the optical properties of coating based on ZnO powder and liquid K ₂ SiO ₃
P 1-40	Vitaliy Shymanski*	Influence of high-intense ion pulses on tungsten surface erosion

Poster Session 2

Ion-assisted coating deposition, Tuesday - August 27, 2019

Session	Name	Poster Title
P 2-1	Maxim Shandrikov	The deposition of Cu-films in a planar magnetron sputtering system at ultra-low operating pressure
P 2-2	Alexander Pak*	Direct current arc plasma synthesis of superdispersed powder materials in «tungsten-carbon» system
P 2-3	Anatolii Klopotov	Modification with an intense pulsed electron beam of the structure and properties of a powder coating of the Ni-Cr-B-Si system, plasma-sprayed on steel
P 2-4	Alisa Nikonenko*	Features of multilayer coatings on the basis of Zr-Y-O/Si-Al-N system
P 2-5	Takaomi Matsutani	Development of nitrogen ion beam sputtering and mixing deposition method for nitride film formation
P 2-6	Nikita Prokopenko*	Deposition of gradient Zr-Nb-N coatings by vacuum-arc method with ion-plasma assistance
P 2-7	Galina Bleykher	Controlling the properties of metal films deposited using magnetron sputtering systems with evaporative targets
P 2-8	Dmitry Safonov*	Study of magnetron-sputtered coatings on ion-modified surface of alloy E110
P 2-9	Rustem Nagimov*	Properties of intermetallic-based Ti-Al coatings deposited on the ultrafine grained martensitic steel
P 2-10	Alexey Shevelev*	Surface modification of E110 alloy by high-intensity low ion energy Cr implantation
P 2-11	Vladimir Uglov	Hard and wear-resistant niobium carbide layered coatings on tools by niobium ion bombardment and cathodic vacuum arc deposition

Poster Session 3

Basic mechanisms, theory and fundamental, Wednesday - August 28, 2019

Session	Name	Poster Title
P 3-1	Haocheng Liu*	Radiation tolerance of La-doped nanocrystalline steel under heavy-ion irradiation at different temperatures
P 3-2	Haowen Zhong	The influence to crater formation by inclusions on metal surface during IPIB irradiation process
P 3-3	Jin-Xia Cheng	The odd-even effect of fragmentation cross sections for ^{36}Ar and ^{40}Ar
P 3-4	Koumei Baba	Deposition of diamond-like carbon films on insulating substrates
P 3-5	Alisa Nikonenko*	Influence of implantation by ions of aluminium on change of size of grain of UFG-titanium
P 3-6	Yu Xiao*	The ablation of metals and plastics by intense pulsed ion beam
P 3-7	Guoying Liang	Effect of vacancy on thermal conduction during energetic ions irradiation: a molecular dynamics study
P 3-8	Maria Chepak-Gisbrecht	Thermal-diffusion model of ion implantation with Soret and Dufour effects
P 3-9	Noriaki Matsunami*	Electrical resistivity modification of graphene layers by low energy ion irradiation
P 3-10	Nikolay Makarevich	Nonideality factor in entropy-multifractal analysis of surfaces
P 3-11	Ivan Zhidkov	Interfacial reactions in $\text{Al}_2\text{O}_3 / \text{Cr}_2\text{O}_3$ interfaces obtained by pulsed magnetron sputtering
P 3-12	Ivan Zhidkov	Electronic structure of ion-implanted 3d impurities in a topological insulator Bi_2Te_3

Defect engineering, nano-science and technology, Wednesday - August 28, 2019

Session	Name	Poster Title
P 4-1	Nikolay Cherenda	Structure of austenitic steel surface layer subjected to compression plasma flows impact
P 4-2	Setsuo Nakao	Effect of hydrogen content on water wettability of diamond-like carbon films prepared by plasma-based ion implantation and deposition
P 4-3	Phan Luong Tuan	Investigations of chemical composition and thickness of oxide layers deposited on Si GaAs implanted with Xe ions
P 4-4	Elke Wendler	Radiation tolerance of nanostructured TiAlN coatings under Ar ⁺ ion irradiation
P 4-5	Alexander Korotaev	Admittance studies of modification of HgCdTe surface properties with ion implantation and thermal annealing
P 4-6	Alexander Korotaev	Hall effect studies of modification of HgCdTe surface properties with ion implantation and thermal annealing
P 4-7	Alexander Korotaev	Kinetics of formation of nanostructures by Frank–van der Merwe, Volmer–Weber and Stranski–Krastanow growth modes
P 4-8	Alexander Korotaev	The relaxation of electrophysical properties HgCdTe epitaxial films affected by plasma of high frequency nanosecond volume discharge in atmospheric-pressure air
P 4-9	Sergey Pavlov*	Effect of 28 MeV He ²⁺ ion beam and short-pulsed 200 keV C ⁺ ion beam irradiation on optical properties of multilayer Al-Si-N coatings
P 4-10	Sergey Pavlov*	Effect of short-pulsed 200 keV C ⁺ ion beam and 350 keV He ²⁺ ion beam irradiation on optical properties of Al-Si-N coatings with a various Si content
P 4-11	Jerzy Zuk	Doping and the band gap engineering in group IV alloys using ion implantation and flash lamp annealing
P 4-12	Der-Sheng Chao	Crystallographic orientation dependence of blistering kinetics and defect evolution in silicon implanted by hydrogen ions
P 4-13	Arseny Kiryakov*	Ion beam stimulated defects in transparent MgAl ₂ O ₄ ceramic
P 4-14	Hana Faitová*	Focused-ion-beam controlled nucleation and growth of ZnO nanorods
P 4-15	Pavel Dzhumaev	Magnetron deposition of multilayer coatings on the E110 zirconium alloy cladding tube segments
P 4-16	Alma Dauletbekova	Synthesis of ZnSe ₂ O ₅ nanocrystals in a-SiO ₂ /Si-n track template: experimental studies and theoretical calculations
P 4-17	Alma Dauletbekova	Structure and properties of CdTe nanocrystals created in SiO ₂ /Si track templates

Poster Session 5

New accelerator systems and tools for materials research, Wednesday - August 28, 2019

Session	Name	Poster Title
P 5-1	Vasily Gushenets	Ring-shaped ion sources based on closed drift anode layer thruster
P 5-2	Maxim Shandrikov	Source of high-intensity ultra-low-energy ion flow and bulk gaseous plasma for large-area surface modification
P 5-3	Yu Xiao*	Investigation of magnetically insulated diode for intense pulsed ion beam generation for materials research
P 5-4	Yuki Tai*	Application of silicone based polymer modified by low energy nitrogen ion beam to diaphragm for environmental-cell transmission electron microscope
P 5-5	Vitaly Shamanin*	Aluminum HIPIB production in ion diode with self-magnetic isolation
P 5-6	Pavlov Sergey*	High-current pulsed induction plasma source for generation of high intensity ion beams of various gases
P 5-7	Efim Oks	Generation of beams of multiply charged heavy metal ions of bismuth up to 19^+ in a pulsed high current vacuum arc ion source

Poster Session 6

Biomedical and industrial applications, Wednesday - August 28, 2019

Session	Name	Poster Title
P 6-1	Konstantin Savkin	Atmospheric pressure plasma jet application for magnesium and zinc oxides generation
P 6-2	Wenzong Ma	A theoretical model for predicting and optimizing in vitro screening of potential targeted alpha-particle therapy drugs
P 6-3	Alexey Remnev	Diamond film etching by low energy large aperture ion beams for cutting tools reconditioning
P 6-4	Vasily Poplavsky	Ion beam assisted deposition of rare earth metals and platinum for obtaining of catalytic layers
P 6-5	Vladislav Tarbokov	Titanium surface roughness modification using ion beam and mechanical method