

Thursday, June 29, 2006

7:30-8:30 Breakfast

Morning session IV (Chairman: V. Shvetsov, Russia)		
8.30	F. Nickel (Germany)	On the structure of the ferromagnetic-paramagnetic phase transition in gadolinium
9:00	A. Misiuk (Poland)	Structural and magnetic properties of Si:Cr processed under enhanced stress
9:20	D. Krupa (Poland)	Effect of calcium-ion implantation on the corrosion resistance and bioactivity of Ti6Al4V alloy
9:40	J. Baszkiewicz (Poland)	Effect of sodium-ion implantation on the properties of the surface layers formed on CoCrMo alloy (Endokast SL)

10:00 Coffee break

Morning session V (Chairman: R. Hurley, UK)		
10:30	D. Bieliński (Poland)	Ion bombardment of polyethylene. Influence of polymer structure
11:00	G.M. Wu (Taiwan R.O.C.)	Modification of rigid rod poly(1,4-phenylene-cis-benzobisoxazole) fibers by gas plasma treatments
11:20	Z. Wroński (Poland)	Role of ions in the abnormal lighting of the plasma – cathode interface of neon glow discharges
11:40	P. Konarski (Poland)	Quadrupole based glow discharge mass spectrometer – design and results compared with secondary ion mass spectrometry analyse
12:00	K. Głuch (Poland)	Determination of kinetic energy release by using a double focusing sector mass spectrometer
12:20	M. Turek (Poland)	Secondary ion emission from Ti and Si targets induced by medium energy Ar ⁺ ion bombardment. Experiment and computer simulation
12:40	Closing of the Conference	

13:00 Lunch

16:00 Departure

Program of the Conference



VI-th INTERNATIONAL CONFERENCE

**Ion Implantation and Other Applications
of Ions and Electrons**

Kazimierz Dolny, Poland, June 26-29, 2006

Monday, June 26, 2006

10:00 - Registration

13:00 - Lunch

14:00 Opening of the Conference		
Afternoon session I (Chairman: A. Turos, Poland)		
14:15	B. Rauschenbach (Germany)	Nanostructures on surfaces by low-energy ion bombardment
14:45	J.W. Gerlach (Germany)	Microstructure of m-plane oriented GaN films deposited by ion beam assisted molecular beam epitaxy
15:05	F.F. Komarov (Belarus)	Application of proton beams in the modern micro- and optoelectronics
15:35	R.E. Hurley (United Kingdom)	Surface blistering of low temperature annealed hydrogen and helium co-implanted silicon and its application to splitting of bonded wafer substrates
16:05 Coffee break		
Afternoon session II (Chairman: J. Zdanowski, Poland)		
16:30	A. Turos (Poland)	MeV accelerators in materials research
17:00	D. Grambole (Germany)	Ion beam analysis by nuclear microprobes
17:30	V. Shvetsov (Russia)	IREN – electron accelerator for neutron spectroscopy and applied research

18:30 Dinner

20:00 Organ concerto

Tuesday, June 27, 2006

7:30÷8:30 Breakfast

Morning session I (Chairman: W. Skorupa, Germany)		
8:30	J. Jagielski (Poland)	Defect accumulation in irradiated materials
9:00	G. Brauer (Germany)	Positron lifetimes in ZnO single crystals
9:30	L. Thomé (France)	Radiation stability of ceramics: test cases of zirconia and spinel
10:00	R.A. McMahon (United Kingdom)	Flash-lamp annealing of semiconductor materials – applications and process models
10:30	A. Didyk (Russia)	Structure changes of InP and GaAs crystals double irradiated with electrons and swift heavy ions

10:50 Photo session

11:00 Coffee break

11:30 – 13:30 Poster Session I (Chairman: B. Słowiński, Poland)

13:30 Lunch

Afternoon session III (Chairman: J. Piekoszewski, Poland)		
14:30	K.P. Homewood (United Kingdom)	Silicon and silicide based photonic devices
15:00	R. Kögler (Germany)	Praseodymium compound formation in silicon by ion beam synthesis
15:30	A. Kozanecki (Poland)	Rare earths ion implantation doping of wide band gap semiconductors
16:00	S. Prucnal (Poland)	Efficiency and stability issues of metal-oxide-silicon-based light emitting diodes made by rare earth ion implantation
16:30	D. Machajdík (Slovakia)	Thermal stability of advanced gate stacks consisting of a Ru electrode and Hf-based gate dielectrics for CMOS technology

16:50 Coffee break

Afternoon session IV (Chairman: L. Pranevicius, Lithuania)		
17:15	H.W. Kunert (South Africa)	Effect of time reversal symmetry in sapphire (Al_2O_3) on dynamical matrices and optical selection rules
17:35	M.A. Ruvinskii (Ukraine)	Theoretical method for study of the ion implantation in multilayered solid-state structures
17:55	D. Freik (Ukraine)	Ionization and nuclear losses of energy of α -particle in $A^{IV}B^{VI}$

18:15	A.H. Ramezani (Iran)	Implantation with low energy in InP
18:35	A. Fedotov (Belarus)	Photoresponse of hydrogen plasma treated and electron irradiated silicon wafers

19:00 Scientific Committee Meeting

20:00 Conference dinner

Wednesday, June 28, 2006

7:30÷8:30 Breakfast

Morning session II (Chairman: V.M. Anishchik, Belarus)		
8:30	J. Piekoszewski (Poland)	Superconducting and electrical properties of Mg-B structures formed by implantation of magnesium ions into the bulk boron followed by pulse plasma treatment
9:00	L. Pranevicius (Lithuania)	Carbon relocation on surface of tungsten under high-flux, low-energy ion irradiation at elevated temperature effects
9:30	R.L. Boxman (Israel)	Vacuum arc deposition of hard and superhard coatings
10:00	Z. Werner (Poland)	The effect of ion implantation on the wear of Co-Cr-Mo alloy
10:20	A.D. Pogrebnjak (Ukraine)	Ti ion implantation and electron beam treatment of Al/ Al_2O_3 coatings deposited on graphite substrate

10:50 Coffee break

Morning session III (Chairman: F.F. Komarov, Poland)		
11:10	S.B. Kisilitsin (Kazakhstan)	Influence of powerful pulse electron beams on physicomaterial properties of stainless steels and pure metals
11:30	V.M. Anishchik (Belarus)	Thermal stability of nitride coatings formed by ion-plasma deposition
11:50	B. Słowiński (Poland)	Modelling of resistance properties of layer structures of implanted metals and implanted resistive alloys
12:10	D. Milcius (Lithuania)	Influence of ion irradiation effects on the hydriding/dehydriding behavior of nanocrystalline Mg_2Ni films

12:30 – 14:00 Poster Session II (Chairman:, Z. Werner Poland)

14:00 Lunch

14:45 Excursion

19:00 Barbecue