

Wednesday, June 29, 2022

8:00 *Breakfast*

Morning session I (Chairman: M. Boćkowski)

9:00	A. Kozanecki (Poland)	Europium implanted ZnO-based quantum structures (I-8)
9:30	R. Ratajczak (Poland)	Comprehensive approach to the studies of Zinc Oxide implanted with rare-earth ions for future optoelectronic device applications (I-13)
10:00	M. Guziewicz (Poland)	Characterization of SiC 4H films formed by Al or N implantation, and thermal activation for power devices (I-3)
10:30	<i>Coffee break</i>	

Morning session II (Chairman: S. Prucnal)

11:00	I. Jóźwik (Poland)	Ion-irradiated damage-induced resistivity contrast imaging of semiconductor structures with ultra-low energy electrons (I-5)
11:30	A. Janse van Vuuren (South Africa)	Microstructural response of silicon nitride to fission fragments (O-1)
11:50	<i>Lunch</i>	
13:00	<i>Excursion</i>	
19:00	<i>Barbecue</i>	

Thursday, June 30, 2022

8:00 *Breakfast*

Morning session I (Chairman: P. Budzyński)

9:00	P. Horodek (Poland)	Defects studies of gold exposed to Au and H implantation (I-4)
9:30	A. Pelc (Poland)	Negative ion formation by low energy electron interaction with molecules (I-10)
10:00	M. Szala (Poland)	Effect of nitrogen ion implantation on cavitation erosion resistance of CoCrWC alloy (O-3)
10:20	<i>Coffee break</i>	

Morning session II (Chairman: J. Żuk)

10:40	M. Kulik (Poland)	Optical spectra and chemical composition of native oxide layers on hot-implanted GaAs (O-2)
11:00	M. Turek (Poland)	Modification of PET foil properties by 150 keV Li ⁺ ion implantation (O-4)
11:20	Closing of the Conference	
12:00	<i>Lunch</i>	
14:00	Departure	

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XIII-th INTERNATIONAL CONFERENCE
on
ION IMPLANTATION
AND OTHER APPLICATION OF IONS
AND ELECTRONS



Program



Kazimierz Dolny, Poland,
June 27-30, 2022

Program of the Conference

Monday, June 27, 2022

10:00 - Registration

13:00 - *Lunch*

14:00	Opening of the Conference	
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Afternoon session I (Chairman: A. Kozanecki)

14:15	T. Domański (Poland)	Synergy of semiconductor physics and electron pairing: route towards novel topological materials (SL-1)
14:45	M. Boćkowski (Poland)	Innovative approach for changing electrical and optical properties of GaNn (I-1)
15:15	J. Jagielski (Poland)	McChasy 2; a new Monte Carlo simulation code designed for a use with large atomic structures (I-5)

15:45 *Coffee break*

Afternoon session II (Chairman: A. Pogrebnyak)

16:15	J. O'Connell (South Africa)	SHI induced bulk rotation in non-amorphizable targets (I-9)
16:45	P. Pęczkowski (Poland)	Influence of noble gas ions irradiation on the structural and magnetic properties of HTS-2G tapes (I-11)
17:15	S. Prucnal (Germany, Poland)	Defect engineering in degenerate semiconductors using intense pulsed light (I-12)
17:45	O. Yastrubchak (Ukraine)	Multicomponent dilute ferromagnetic semiconductors on the base of (Ga,Mn)As for spintronic applications (O-5)

18:05 *Dinner*

20:00 *Organ concerto*

Tuesday, June 28, 2022

8:00	<i>Breakfast</i>	
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Morning session I (Chairman: M. Turek)

9:00	K. Czernski (Poland)	How do crystal lattice defects increase nuclear fusion reaction rates? (I-2)
9:30	B. Jasińska (Poland)	New method of imaging in PET based on morphometric indicator (SL-2)

10:00	B. Sartowska (Poland)	Surface modification of zirconium alloys used for claddings to improve the corrosion resistance (I-14)
10:30	F. Komarov (Belarus)	Swift heavy ion modification of A ₃ B ₅ nanoparticles and zinc- based core- shell nanostructures embedded in silica (I-7)
11:00	<i>Coffee break</i>	
Young Scientists Contest I (Chairman: W. Skorupa)		
11:30	A. Ibrayea (South Africa)	Tolerance of nanocrystalline Y ₄ Al ₂ O ₉ for SHI irradiation (YSC-1)
11:50	P. Jaroszyński (Poland)	Ultra-high pressure doping of GaN with europium (YSC-2)
12:10	P. Jóźwik (Poland)	Modeling of dislocations and dislocation loops for Monte Carlo simulations of ion channeling (YSC-3)
12:30	K.Z. Krutul (Poland)	Radiation resistance studies of PIN diode detectors irradiated with heavy ions (YSC-4)
12:50	<i>Lunch</i>	
Young Scientists Contest II (Chairman: J. Jagielski)		
14:00	M. Lech (Poland)	Physical aspect of initiation and development of discharges in vacuum interrupters used in electric power switchgear (YSC-5)
14:20	Y. Li (Germany)	Modification of two-dimensional materials using ion implantation (YSC-6)
14:40	M. Sarwar (Poland)	Crystal lattice damage and recovery of rare-earth implanted wide bandgap oxides (YSC-7)
15:00	K. Sierakowski (Poland)	Investigation of beryllium diffusion for various crystallographic directions in GaN grown by HVPE (YSC-8)
15:20	<i>Coffee break</i>	
16:00	M. Gawęda (Poland)	Structural degradation in graphite after argon ion irradiation investigated with Raman imaging (YSC-9 POSTER SESSION)
16:00	POSTER SESSION (Chairman: M. Kulik)	
18:00		
19:00	<i>Conference dinner</i>	