

15th International Conference on Defects Recognition, Imaging and Physics in Semiconductors

September 15-19, 2013, Warsaw, Poland

Sunday, September 15		Monday, September 16			Tuesday, September 17			Wednesday, September 18			Thursday, September 19		
	time	author presentation title	session	time	author presentation title	session	time	author presentation title	Chairman	time	author presentation title	session	
	9:00 - 9:20	Opening ceremony	EW MEASUREMENT TECHNIQUES	9:00 - 9:40	Lutz Kirste (Fraunhofer Institute of Applied Solid State Physics) Analysis of the Defect Structure of Freestanding GaN Substrates by X-Ray Diffraction Techniques	OWTH AND CHARACTERISATION					Matthew Phillips (University of Technology, Sydney) Radiative Deep Level Defects in Bulk and Nanostructu	ıred ZnO	
	9:20 - 10:00	Sébastien Duguay (CNRS France) Atom probe tomography and the analysis of semiconductors and insulators		9:40 - 10:00	Maciej Matys (Silesian University of Technology) Characterization of donor-like states at insulator/AlGaN interface in metal/Al2O3/AlGaN/GaN structures					9:40 - 10:00	Takashi Sekiguchi (National Institute for Materials Science) Focused Ion Beam Imaging of Defects in Si Materials for Photovoltaic and Semiconductor Use	OLTAICS	
	10:00 - 10:20	Paul Montgomery (Icube) Parallel optical profilometry assisted conception of an opto-electronic illuminator using a VCSEL and diffractive optics		10:00 - 10:20	Łucja Marona (Institute of High Pressure Physics PAS) Cathodoluminescence study on defects in partially strained InGaN quantum wells grown on semi-polar (20-21) GaN substrate						Yutaka Yoshida (Shizuoka Institute of Science and Technology) Fe mapping in mc-Si solar cell by Mössbauer spectroscopic microscope		
	10:20 - 10:40	Michael Mannsberger (Thermo Fisher Scientific) XPS Characterization of Organic and Inorganic Semiconductors	z	10:20 - 10:40	Kunihiko Nakamura (Osaka University) Variation of local residual strain and twist angle in growth direction of AlN films on trench-patterned 6H-SiC substrates	IDES - GR				10:20 - 10:40	Mowafak Al-Jassim (NREL) Luminescent, structural and chemical properties of defects in MBE- and CSS-grown CdTe films for solar cell applications	РНОТОИ	
		10:40 - 11:00 coffee break	10:40 - 11:00 coffee break		Bartosz Radkowski (LABSOFT) eration based on PeakForce Tapping technology in atomic force microscopes	Ä.	Excursion			10:40 - 11:00	Jens Ohlmann (Fraunhofer ISE) Defect analysis of metamorphic buffer structures for III-V multi-junction solar cells		
	11:00 - 11:40	Hidekazu Tsuchida (CRIEPI Japan) High Resolution Imaging and Discrimination of Extended Defects in 4H-SIC			11:00 - 11:20 coffee break						11:00 - 11:20 coffee break Jens W. Tomm (Max-Born-Institut)		
		Tetsuo Hatakeyama (ADPERC, AIST)		11:20 - 12:00	Anna Mogilatenko (FBH Germany) Defect analysis in III-nitride layers using transmission electron microscopy						Imaging of the degradation of 980 nm emitting single-spatial-mod- lasers during ultrahigh power operation Martin Hemoel (Max-Born-Institut)	e CES	
	11:40 - 12:00	SiO2/4H-SiC Interface Kazuya Konishi (Mitsubishi Electric Corporation)			Ute Zeimer (FBH Germany)	DES				11:40 - 12:00	Temperature Kinetics during Catastrophic Optical Damage of Diode Laser Kamil Pierscinski (ITE)	le lasers by	
	-	Investigation of Stacking Fault Expansion from Basal Plane Dislocations within High Doped 4H-SiC Epilayers Koji Nakayama (Kansai Electric Power Co., Inc.) Observations of overlapped single Shockley stacking faults in 4H-SiC pin	SiC	12:00 - 12:20	The impact of the surface morphology of All/Sapphire templates on the structural and optical properties of AlGaN/AlGaN multiple quantum wells Ewa Grzanka ((Institute of High Pressure Physics PAS) Structural and chemical characterization of the InGaN/GaN multi-quantum	NITR				12:20 - 12:20	Evaluation of performance of mid-IR quantum cascade lasers by means of TR imaging Agata Bojarska (Institute of High Pressure Physics PAS)		
and a	12:40 - 13:00	diode		12:40 - 13:00	wells grown on different substrates using HR-XRD pattern and XPS Piotr Dumania (Institute of Electron Technology)					12.20 - 12.40	Cavity - free Optical Lasing in InGaN Heterostructures 12:40 - 13:00 Clossing Address		
arrival	12.40 - 15.00	13:00 - 14:00 lunch		12.40 - 13.00	SMART FRAME- empowering innovative business in Central Europe 13:00 - 14:00 lunch		13:00 - 14:00 lunch		13:00 - 14:00 lunch				
				25.00 1.00 0.00									
	15:00 - 15:40	Robert Dwiliński (AMMONO Poland) Bulk GaN substrates grown by ammonothermal method		15:00 - 15:40	Wlodek Strupinski (ITME Poland) Graphene: Epitaxial vs exfoliated	15:00 - 15:40 In-situ atomic-level 3D imaging of InAs quantum dot formation process on GaAs(001) during molecular beam epitaxy growth 15:40 - 16:00 Cesare Frigeri (CNR-IMEM Institute) Astructural characterization of GaAs MBE grown on Si pillars Paloma Tejedor (Instituto de Ciencia de Materiales de Madrid, CSIC) Surface self-organization and structure of highly doped n-InGaAs ultra-shallow junctions Juan Jiménez (University of Valladolid) Raman spectrum of SiGe NWs. Compositional and electromagnetic amplification aspects Jean-Pierre Landesman (University Rennes-1) Intermixing in InP-based quantum well photonic structures induced by the dry-etching process: a spectral imaging cathodoluminescence study							
	15:40 - 16:00	Dawid Kot (IHP GmbH) Development of a Storage Getter Test for Cu Contaminations in Silicon Wafers Based on ToF-SIMS Measurements	Si WAFERS	15:40 - 16:00	Pawel Kaminski (Institute of Electronic Materials Technology) Transformations of deep-level defects in the semi-insulating 4H-SiC substrate induced by the growth of epitaxial graphene		15:40 - 16:00	Cesare Frigeri (CNR-IMEM Institute) A structural characterization of GaAs MBE grown on Si pillars	wo a do				
	16:00 - 16:20	Michio Tajima (ISAS/JAXA) Relation between deep-level photoluminescence and structure of small-angle grain boundaries in multicrystalline Si		16:00 - 16:20	Sébastien Duguay (CNRS France) Electrical and physical characterization of AlGaN/GaN power HEMTs after thermal storage		16:00 - 16:20	Madrid, CSIC) Surface self-organization and structure of highly doped					
	16:20 - 16:40	Gen Kato (ISAS/JAXA) Photoluminescence Analysis of Oxygen Precipitation around Small-Angle Grain Boundaries in Multicrystalline Silicon Wafers		16:20 - 16:40	Martina Baeumler (Fraunhofer-Institut für Angewandte Festkörperphysik) Electroluminescence investigation of the lateral field distribution in AlGaN/GaN HEMTs for power applications		16:20 - 16:40	Raman spectrum of SiGe NWs. Compositional and electromagnetic amplification aspects					
	16:40 - 17:00	Peng Dong (State Key Lab. of Silicon Mat., Zhejiang University) Correlation between copper precipitation and grown-in oxygen precipitates in 300 mm Czochralski Silicon wafer			16:40 - 17:00 coffee		16:40 - 17:00	Intermixing in InP-based quantum well photonic structures induced by the dry-etching process: a spectral imaging			departure		
	17:00 - 17:20 coffee			17:20 – 19:00 Poster session		17:00 - 17:20 coffee				исрантале			
							17:20 - 17:50	Emilien Leonhardt (Hirox Ltd.) 3D Digital Microscope: HIROX KH-8700 Full HD Visual Inspection With 2D and 3D Measurement Easy, Fast, High Quality					
17:00 - Welcome glass of wine		19:00 - ISC meeting						19:00 - 22:00 Conference Dinner					



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List of posters (alphabetical order) Poster session: Tuesday, September 17, 17:20 – 19:00

University of Nottingham	Electrical characterization of defects using Deep Level Transient Spectroscopy (DLTS) technique in InGaAs quantum wires intermediate-band solar cells							
University of Nottingham	Studies of interface related traps on Interfacial Misfit GaSb/GaAs heterostructures by Deep level transient spectroscopy (DLTS) and admittance spectroscopy Techniques.							
Xiamen University	Observation and Control of Interfacial Defects by introducing coherent layer of ZnSe in Type II ZnO/ZnSe Coaxial Nanowires							
Toyota Motor Corporation	Solution Growth on 4H-SiC(1-100) for Lowering Density of Threading Dislocations							
Silesian University of Technology	In-depth profiles of element distribution at insulator/SiC interface from Auger electron spectromicroscopy							
SemilabSDI LLC	Kelvin force microscopy characterization of corona charged dielectric surfaces							
CNR-IMEM Institute	Effect of stress on defect transformation in B+ and Ag+ implanted HgCdTe/CdZnTe structure							
	A structural characterization of GaAs MBE grown on Si pillars							
Military University of Technology, Warsaw, Poland	Theoretical studies of free-space optical systems applying quantum cascade laser							
University of Nottingham, UK	Defects study in PANI grown on normal and high index GaAs planes using Current-Voltage, Conductance and Deep Level Transient Spectroscopy							
National Institute of Advanced Industrial Science and Technology	X-ray Topographic Study of Homoepitaxial Diamond Layer							
Institute of Electron Technology	High-resolution X-ray characterization of mid-IR Al0.45Ga0.55As/GaAs QCL structure							
University of Valladolid	Correlation between residual strain and electrically active defects in mc-Si solar cells							
	Raman study of multicrystalline Silicon wafers produced by the RST process							
Osaka Electro-Communication University	Electrical Behavior of Mg in Mg-Implanted 4H-SiC Layer							
Institute of Physics Wroclaw University of Technology	Influence of arsenic on the interface quality in type II InAs/Ga In(As)Sb quantum wells							
University of Miyazaki	Output estimation of concentrator photovoltaic using mappings of environmental factors and performance ratio							
Institute of Electron Technology	CCD Thermoreflectance for thermal characterization of optoelectronic devices							
Institute of Electron Technology	Effect of secondary electroluminescence on cathodoluminescence and other luminescence measurements							
Military University of Technology	Application of explosive concentrators to QC laser absorption spectroscopy systems.							
Institute of Electron Technology	High resolution X-ray diffraction analysis of the InAIAs layers on InP substrates							
National Institute for Materials Science	Dislocation generation and propagation across the grain boundaries and seed interfaces in cast Si							
Warsaw University of Technology	Investigation on the mechanisms of nitrogen shallow implantation influence on trap properties of SiO2/n-type 4H SiC interface							
Slovak University of Technology in Bratislava	Deep Level Transient Spectroscopy Study of Pentacene Diode							
Military University of Technology	Effect of deep-level defects on transient photoconductivity of semi-insulating 4H-SiC							
Faculty of Physics, Warsaw University of Technology	Fabrication and characterization of molybdenum disulfide monolayers							
Institute of Electron Technology	The study of heat transport in photonic periodic nanostructures using optical spectroscopy methods							
	University of Nottingham Xiamen University Toyota Motor Corporation Silesian University of Technology SemilabSDI LLC CNR-IMEM Institute Military University of Technology, Warsaw, Poland University of Nottingham, UK National Institute of Advanced Industrial Science and Technology Institute of Electron Technology University of Valladolid Osaka Electro-Communication University of Technology University of Miyazaki Institute of Physics Wroclaw University of Technology University of Miyazaki Institute of Electron Technology Military University of Technology Institute of Electron Technology National Institute for Materials Science Warsaw University of Technology Slovak University of Technology in Bratislava Military University of Technology Faculty of Physics, Warsaw University of Technology							