

Preliminary program : subject to changes		
	Invited talks	25 min including questions / answers
	Regular talks	15 min including questions / answers
MONDAY 17th		
08:30-8:40	Opening Ceremony	
	SESSION 1 : GaN power devices - Chair : J. Würfl	
08:40-10:15	T. Oka, Toyoda Gosei, Japan (Invited)	Recent Progress of Vertical GaN Power Devices on GaN Substrates
	E. Bahat Treidel, FBH Berlin, Germany (Invited)	Review of vertical GaN-based FETs
	M. Borga, Uni. Padova, Italy, student presentation	GaN-on-Silicon buffer decomposition experiment: analysis of the vertical leakage current
	A. Tajalli, Uni. Padova, Italy	Superlattice GaN-on-silicon heterostructures with low trapping in 1200 V
	J. Asubar, Uni. Fukui, Japan	Impact of regrown AlGaN layer on the properties of Al2O3/AlGaN/GaN metal-insulator-semiconductor structures
10:15-10:45	Coffee Break	
	SESSION 2 : RF GaN devices - Chair : D. Pavlidis	
10:45-12:15	P. Altuntas, 3-5 Lab Thales, France	Evaluation of 100 nm T-gate technology for InAlGaN/GaN HEMTs on SiC substrate
	K. Harrouche, IEMN-CNRS, France, student presentation	Scaling of AlN/GaN HEMT for millimeter-wave power applications
	M. Irekti, IEMN, France, student presentation	Development of AlGaN/GaN RF HEMT technology on Free-Standing GaN substrate
	N. EL Bondry, 3-5 Lab Thales, France, student presentation	AlGaN/GaN and InAlGaN/GaN HEMTs with non-alloyed ohmic contacts
	Y. Cordier, CRHEA-CNRS, France	MOVPE growth of buffer layers on 3C-SiC/Si(111) templates for AlGaN/GaN High Electron Mobility Transistors with low RF losses
	N. Defrance, IEMN, France	Co-integration of Enhancement and Depletion Modes of GaN-based Transistors for Next Generation RF Communication Circuits
12:15-13:45	Lunch	
	SESSION 3 : Novel device and circuit concepts I - Chair : R. Franklin	
13:45-15:00	R. Winik, MIT, US (Invited)	Progress and Challenges for Engineering Superconducting Qubits
	D. Pavlidis, Uni. Boston, US	Device Approaches for Vacuum Nanoelectronics
	JY Duboz, CRHEA-CNRS, France	GaN Schottky diodes for proton beam monitoring
	K. Zekentes, FORTH, Greece	4H-SiC Nanowire arrays formation by nanoimprint lithography, plasma etching and sacrificial oxidation
	SESSION 4 : Optoelectronic devices and modelling - Chair : JY Duboz	
15:00-16:15	H. Hartnagel, Uni. Darmstadt, Germany	Negative differential resistance in non-polar m-plane ZnO/ZnMgO resonant tunneling diodes with double and triple quantum barriers
	H. Maxime, CRHEA-CNRS, France	ZnO : from material assessment to quantum cascade detectors
	H. Hartnagel, Uni. Darmstadt, Germany	The selection of optimized metal contacts for the ZnSe-based metal-semiconductor-metal ultraviolet photodetector
	K. Horio, Shibaura Inst., Japan	Dependence of Breakdown Voltage on Gate-to-Drain Distance of AlGaN/GaN HEMTs with High-k Passivation Layer
	A. Chvala, Uni. Bratislava, Slovakia	Characterization of Monolithic InAlN/GaN NAND and NOR Logic Gates Supported by Circuit and Device Simulations
16:15-16:50	Coffee Break	
	SESSION 5 : 2D materials and devices - Chair : K. Zekentes	
16:50-18:00	M. V.Costache, ICN2 (Invited)	Graphene and 2D materials
	W.Yao, Uni. of Hong Kong (Invited)	2D semiconductors
	E. Pallecchi, IEMN, France	Graphene devices for high frequency applications
19:00-21:00	Welcome Reception	

TUESDAY 18th

SESSION 6 : Thermal and reliability aspects - Chair : G. Meneghesso

08:45-10:30	M. Kuball, Uni. of Bristol, UK (Invited)	GaN-on-Diamond RF Device Technology – Latest Progress
	S. Kyatam, Inst. Telecom, Aveiro, Portugal, <i>student presentation</i>	Thermal management of photonic integrated circuits using diamond holders
	D. Mukherjee, Inst. Telecom, Aveiro, Portugal, <i>student presentation</i>	Fabrication of patterned diamond holders for electronic devices
	D. Keum, Uni. Hongik, South Korea, <i>student presentation</i>	Proton irradiation effects on time-dependent dielectric breakdown characteristics of normally-off AlGaN/GaN gate-recessed MISFETs
	F. Yang, Uni. of Bristol, UK, <i>student presentation</i>	The impact of hot electrons and self-heating during hard-switching in AlGaN/GaN HEMTs
	F. Egyenes-Porsok, Uni. Bratislava, Slovakia, <i>student presentation</i>	Effect of bulk oxide trapping on threshold voltage instabilities in Al ₂ O ₃ /AlGaN/GaN MOS-HEMTs
	10:30-11:00	Coffee Break

SESSION 7 : Device processing - Chair : J. Catarina Mendes

11:00-12:15	R. Driad, IAF, Germany	Effect of two-step thermal annealing on Mg activation and device characteristics of quasi-vertical GaN/Si PIN diodes
	N. Bickel, FBH Berlin, Germany	Thermal and plasma enhanced ALD of Al ₂ O ₃ films on n-GaN for electronic devices
	B. Damilano, CRHEA-CNRS, France	Shaping of GaN using selective area sublimation
	G. Filip, Uni. Ghent, Belgium	Exploring the low-resistive Ti-Al-TiN Ohmic contacts on GaN-based heterostructures
	S. Aroulanda, 3-5 Lab Thales, France, <i>student presentation</i>	Normally-Off InAlGaN/GaN-on-SiC MOS-HEMTs by Atomic Layer Etching and Fluorine Implantation

12:15-13:45	Lunch
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SESSION 8 : Ultra-wide bandgaps - Chair : M. Kuball

13:45-15:10	J. Würfl, FBH Berlin, Germany (Invited)	Towards Future Power Electronics: Technology and Perspectives of Gallium Oxide Devices
	J. Pernot, Inst. Néel CNRS, France (Invited)	Diamond based devices
	D. Araujo, Uni. Cadiz, Spain	Diamond/oxide interface issues to optimize MOSFET gate band setting
	I. Abid, IEMN-CNRS, France, <i>student presentation</i>	AlGaN/GaN High Electron Mobility Transistors with thin channel on Ultra Wide Bandgap AlN buffer

15:10-15:40	Coffee Break
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15:45-19:30	Social Event Hotel entrance 15:45
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20:00-22:00	Gala Dinner
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WEDNESDAY 19th

SESSION 9 : Novel device and circuit concepts II - Chair : Y. Cordier

08:30-10:00	R. Franklin, Uni. of Minnesota, US (Invited)	Magnetic Nanowire Characterization for Nanomedicine Applications
	A. Al-Khalidi, Uni. Glasgow, UK	Mm-wave/THz Multi-Gigabit Wireless Links Using Resonant Tunnelling Diodes
	G. Di Gioia, IEMN-CNRS, France, <i>student presentation</i>	GaN Schottky Diode for High Power THz Generation using Multiplier Principle
	C. Beckmann, Uni. Aachen, Germany, <i>student presentation</i>	Polarization-induced n- and p-doping in metal-polar compositionally graded AlGaN grown by metalorganic vapor phase epitaxy
	I. Harrysson Rodrigues, Uni. Chalmers, Sweden, <i>student presentation</i>	On the Angular Dependence of Cryogenic InP HEMTs in a Magnetic Field
10:00-10:30	Coffee Break	
SESSION 10 : Advanced characterization - Chair : E. Bahat Treidel		
10:30-12:15	D. Planson, Uni. Lyon, France	Effects of the laser beam size on the Optical induced Current (OBIC) for the study of Wide Band Gap (WBG) Semi-Conductor Devices
	L. Stuchlikova, Uni. Bratislava, Slovakia	Defect Analysis of InAlGaN/GaN/SiC HEMT heterostructures
	J. Drobný, Uni. Bratislava, Slovakia, <i>student presentation</i>	DLTS study of emission and capture processes in GaN/AlGaN/GaN/SiC HEMT with different layer compositions
	G. Greco, CNR-IMM, Catania, Italy	Tungsten Carbide (WC) Schottky contacts in AlGaN/GaN heterostructures
	P. Fiorenza, CNR-IMM, Catania, Italy	Gate capacitance transient measurements to monitor charge trapping in Al2O3 films on recessed AlGaN/GaN heterostructures
	J. Marek, Uni. Bratislava, Slovakia	Electrical and DLTS Characterization of AlN buffers for GaN on Si technology
	D. Haško, Int. laser centre Bratislava, Slovakia	Semiconductor layers study using laser assisted scanning Kelvin probe microscopy
12:15-13:45	Lunch	
13:45-14:00	Closing Ceremony	