

2015 UK-Japan Silicon Nanoelectronics and Nanotechnology (UK-Japan Si NANO²) Symposium in Southampton

9-10 July, 2015

Garden Court and Shackleton Lecture Theatre, University of Southampton

Thursday 9th July

9:00-9:30	Registration and Arrival	
9:30 -9:35	Welcome remark 1: Prof Hywel Morgan, University of Southampton	
9:35-9:40	Welcome remark 2: Professor Kunio Takeyasu, Director of JSPS London	
Session 1	Plenary session	
9:40-10:10	"Silicon device technology for intelligent communications" Prof Shunri Oda, Tokyo Institute of Technology (invited)	
10:10-10:40	Coffee	
Session 2	Silicon nanoelectronics and beyond (I)	
10:40-11:00	"Single electron manipulation in silicon nanodevices" Dr Akira Fujiwara, NTT Basic Research Laboratory (invited)	
11:00-11:20	"Spin Monte Carlo transport simulations in nanoscale Si/InGaAs MOSFETs" Dr Karol Kalna, Swansea University (invited)	
11:20-11:40	"Nano-Electro-Mechanical Integration and Computation" Dr Dinesh Pamunuwa, University of Bristol (invited)	
11:40-12:00	"New definition of SI unit by quantum metrology using single electron pump" Dr Jon Fletcher, NPL (invited)	
12:00-12:10 12:10-12:20	"An overview of JSPS acitivities" Ms Chigusa Ogaya "JSPS fellowships" Mr Takeshi Kamezawa.	
12:20-2:00	Photo session and Lunch	
Session 3	Silicon nanoelectronics and beyond (II)	
2:00-2:20	"Zinc oxide based FBAR devices for bio-sensing applications" Prof Bill Milne, University of Cambridge (invited)	
2:20-2:40	"ZnO nanowire transistors" Dr Harold Chong, University of Southampton	
2:40-3:00	"Gas field ion source lithography" Dr Marek Schmidt, JAIST (invited)	
3:00-3:30	Coffee	



NANO RESEARCH GROUP





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Session 4	Silicon nanoelectronics and beyond (III)	
3:30-3:50	"Diamond electronics" Dr Takayuki Iwasaki, Tokyo Institute of Technology (invited)	
3:50-4:10	"MEMS for Space" Dr Hanna Sykulska-Lawrence, University of Oxford (invited)	
4:10-4:30	"Theoretical approach towards practical quantum computing" Prof Kae Nemoto, National Institute of Informatics (invited)	
4:30-4:50	"Thermoelectric effects in Si nanowires" Dr Zahid Durrani, Imperial College London (invited)	
Friday 10 th Jul	y	
Session 5	Plenary session	
9:00-9:30	"Device Applications of Silicon Nanocrystals and Nanostructures" Prof Nobuyoshi Koshida, Tokyo University of Agriculture and Technology (invited)	
9:30-9:50	"Silicon quantum devices towards new innovation for computing" Dr David Williams, Hitachi Cambridge Laboratory (invited)	
9:50-10:10	"Scanning probe microscopy of silicon nanodevice strutures" Dr Yoshi Tsuchiya, University of Southampton	
10:10 - 10:40	Coffee	
Session 6	Nanoelectronics and Nanotechnology Research Group Activities (PechaKucha)	
10:40 Sun Kai, "Silicon Nanoribbon Biosensors"		
10:50 Liam Boodhoo, "Low power nanoelectromechanical switches"		
11:00 Ruomeng Huang, "Selective growth of chalcogenide materials"		
11:10 Swe Zin Oo, "Disposable plastic SERS sensor"		
11:20 Katrina Morgan, "Radiation hardness resistive memory"		
11:30 Graham Wood, "Electrostatically coupled MEMS resonators"		
11:40 Kapil Debnath, "Atomically flat patterning of Si waveguide"		
11:50 Taha Ben Masaud, "Hot-wire poly-Si photonics"		
12:00 Alex Serb, "RRAM process development and applications"		
12:10 Dan Spencer, "Single cell microfluidic impedance cytometry"		
12:20- 2:00 Lunch		
Session 7	Networking and noster session	

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2:00-4:00	Poster sessions and networking
4:00	Closing remark

