

<b>Monday, 29<sup>th</sup> June 2015 (Workshop day)</b>			
10:00	<b>Reception &amp; Registration</b>		
10:45	<b>Workshop Welcome</b> Chairs – Derek Liddle, <i>CENSIS</i> , Derek Boyd, <i>NMI</i> Room: <i>WILT LT</i>		
<b>11:00 - 12:15 Session I: Policies</b>			<i>Room: WILT LT</i>
11.00 – 11:25 <b>Something in the Air</b> – <i>Drew Hill, Transport Scotland</i> 11:25 – 11:50 <b>The Medical Devices Directive: A Force for Good in Mobile Health Applications?</b> - <i>Alexander Weir, NHS Greater Glasgow &amp; Clyde</i> 11:50 – 12:15 <b>Title “TBD”</b> – <i>Dr Tony Dedeu, Digital Health Innovation</i> 12:15 – 12:30 <b>Panel Discussion</b>			
12:30 – 13:30	<b>Lunch</b>		
<b>13:30 – 15:15 Session II: Human Machine Interaction</b>			<i>Room: WILT LT</i>
13:30 – 13:55 <b>Accommodating real user and organisational requirements in the human centred design process</b> – <i>Dr. Steve Love, Glasgow School of Art</i> 13:55 – 14:20 <b>Context-Aware Displays: Next Generation Human Computer Interaction</b> – <i>Professor Aaron Quigley, St. Andrews University</i> 14:20 – 14:45 <b>What do Robots need from HMI?</b> – <i>Rich Walker, Shadow Robotics Company</i> 14:45 – 15:00 <b>Panel Discussion</b>			
15:00-15:30	<b>Refreshments</b>		
<b>15:30 – 17:00 Session III: Interoperability, Business and Market Challenges</b>			<i>Room: WILT LT</i>
15:30 – 15:55 <b>New Frontiers for Automotive Micro-controllers</b> – <i>Paul Sermanni, Freescale</i> 15:55 – 16:20 <b>How to ensure the interoperability between the IPs on a SoC</b> – <i>Cyprian Wronka, Cadence</i> 16:20 - 16:45 <b>How many capacitors do we need? Reversing the trend in BOM</b> – <i>Taner Dosluoglu, Endura Technology</i> 16:45 – 17:00 <b>Panel Discussion</b>			
17:00 – 17:30	<b>Refreshments</b>		
17:30 – 18:30 <b>Inaugural Lecture – EPSRC Engineering Fellowship for Growth - Printable Tactile Skin (PRINTSKIN)</b> – <i>Dr. Ravinder Dahiya, University of Glasgow</i>			
<b>Tuesday, 30<sup>th</sup> of June (Day 1)</b>			
8.45 – 9.00	<b>Opening Address:</b> Professor Anton Muscatelli, Principal and Vice Chancellor, University of Glasgow <i>Room: WILT LTI</i>		
9.00 – 9.45	<b>Plenary Tu1: Transparent Oxide Electronics</b> Professor Arokia Nathan, University of Cambridge, UK <i>Room: WILT LTI Session Chair – Franco Maloberti</i>		
9.45 – 10.15	<b>Coffee Break</b> <span style="float: right;"><i>Room: WILT Foyer</i></span>		
10.45 - 12.15	<b>Session Tu1A: Analog, Digital and Mixed Circuits &amp; Systems I</b> <i>Room: WILT LT</i> <i>Session Chairs – Alberto Gola</i>	<b>Session Tu1B: Simulation and Modelling I</b> <i>Room: WILT Sem 112A</i> <i>Session Chairs – Salvatore Amoroso</i>	<b>Session Tu1C: Sensors I</b> <i>Room: WILT Sem 112B</i> <i>Session Chairs – Leandro Lorenzelli</i>
10:45	2837 “SMDAC Design With Nested Gain Boosted Opamp for a 14-Bit 200-MS/s Pipelined ADC” <b>Hailiang Yao</b>	2543 “Analog IC Placement using Absolute Coordinates and a Hierarchical Combination of Pareto Optimal Fronts” <b>Ricardo Martins</b>	2604 “Thermal Treatment and Encapsulation of Carbon Nanotube Based Temperature Sensors” <b>Engin Cagatay</b>
11:00	2642 “MMIC Resonant Tunneling Diode Oscillators for THz applications” <b>Jue Wang</b>	2688 “Conductive Reliability Modelling of Capacitive MEMS” <b>Panagiotis Giounanlis</b>	2695 “Stretchable Resistive Pressure Sensor based on CNT-PDMS Nanocomposites” <b>N. Yogeswaran</b>
11:15	2703 “Power Gating in Asynchronous Micropipelines for Low Power Data Driven Computing” <b>Austin Ogwen</b>	2572 “Accurate Day Ahead Temperature Prediction Using A 24 Hour Kalman Filter Estimator” <b>Conor Lynch</b>	2700 “Sensitivity Characteristics of Horizontal and Vertical Hall Sensors in the Voltage & Current Mode” <b>H. Heidari</b>
11:30	2691 “FPGA Implementation of Fixed Point CORDIC-SVD for E-skin Systems” <b>Ali Ibrahim</b>	2569 “AIDA-PEX: Accurate Parasitic Extraction for Layout-Aware Analog Integrated Circuit Sizing” <b>Bruno Cardoso</b>	2513 “Bio-functionalization study of Memristive-Biosensors for Early Detection of Prostate Cancer” <b>Ioulia Tzouvadaki</b>
11:45	2680 “Exploring the Noise Limits of Fully-Differential Exploring the Noise Limits of Fully-Differential Micro-Watt Transimpedance Amplifiers for $\sqrt{\text{Micro-Watt}}$ Transimpedance Amplifiers for Sub-pA/ $\sqrt{\text{Hz}}$ Sensitivity” <b>Ka-Meng Lei</b>	2664 “Pulsed I-V and Small Signal Characterisation and Modelling of Resonant Tunneling Diodes” <b>Afesomeh Ofiari</b>	2519 “Optimized Electrochemical Detection of Anti-Cancer Drug by Carbon Nanotubes or Gold Nanoparticles” <b>Nima Aliakbarinodehi</b>
12:00	2676 “Reconfigurable Multiplier Architecture based on Memristor-CMOS Circuits” <b>Seungbum Baek</b>	2701 “Spice Model of a Piezo-Electric Transducer for Pulse- Echo System” <b>William Taube</b>	2522 “Acoustic Tweezing for Patterning and Discriminating Particles” <b>Georgios Drosos Skotis</b>
12.15 – 12.45	<b>Company Fair Presentations</b> <i>Room: WILT LT</i> <i>Session Chairs – Edward Wasige, Vincenzo Vinciguerra</i>		
12.45 – 14.00	<b>Networking Lunch and Company Fair (WILT Foyer)</b>		

14.00 – 14.45	<b>Plenary Tu2: Manufacturing challenges &amp; innovation technologies for sensors &amp; large-area electronics</b> Dr Luigi Occhipinti, EPSRC Centre for Manufacturing in Large Area Electronics, University of Cambridge, UK <i>Room: WILT LT; Session Chairs – Ravinder Dahiya</i>		
14.45 – 16.00	<b>Session Tu2A: Power Converter and Integrated Control</b> <i>Room: WILT LT</i> <i>Session Chairs – Srinivas Mandalika</i>	<b>Session Tu2B: Sensors II</b> <i>Room: WILT Sem 112A</i> <i>Session Chairs – Anne Bernassau</i>	<b>Session Tu2C: Analog, Digital and Mixed Circuits &amp; Systems II</b> <i>Room: WILT Sem 112B</i> <i>Session Chairs – Vincenzo Vinciguerra</i>
14:45	2538 “Effective control strategy for photovoltaic cascaded H-bridge inverters developed on FPGA platform” <b>Fabio Di Napoli</b>	2867 “Nanostructured P3HT layers fabricated by self-assembly as promising gas sensors” <b>Emanuele Viviani</b>	2586 “A CMOS Laser Radar Receiver for Sub-ns Optical Pulses” <b>Mikko Hintikka</b>
15:00	2603 “An ultra-low power, 2mA lout buck converter optimized for <50mV ripple at a load cap of only 27nF” <b>Francesco Santoro</b>	2587 “Development of low-power mid-infrared light-emitting diodes for gas sensing applications” <b>Laura Meriggi</b>	2592 Improved Lookup-Table-Based Algorithm for Background Linearization of VCO-Based ADCs” <b>Long Pham</b>
15:15	2611 “High Efficiency Magnetic Resonance Wireless Power Transfer System and Charging IC for Mobile Devices” <b>Jinhwan Youn</b>	2843 “Effects of Autonomic Nervous System on the Quality of Non-invasive Blood Diagnosis by PPG-based sensor system” <b>Hongwei Yuan</b>	2596 “Analyses of Phase Noise Reduction Techniques in CMOS Colpitts Oscillator Topology at the mm-waves: Noise Filter and Optimum Current Density” <b>Ilias Chlis</b>
15:30	2532 “A Configurable Sawtooth Based PWM Generator with 2 ns On-Time for > 50 MHz DCDC Converters” <b>Juergen Wittmann</b>	2698 “Analysis of Stimulated Brillouin Scattering based Distributed Optical Fibre Sensor for Micro Strain Detection” <b>Nageswara Lalam</b>	2582 “Bow-tie Antennas for Terahertz Resonant Tunnelling Diode Based Oscillators” <b>Khalid Alharbi</b>
15:45		2841 “Response of P(VDF-TrFE) Sensors to Force and Temperature” <b>Stuart Hannah</b>	2583 “Design study on a SAR ADC using an incremental sigma-delta-DAC” <b>Ahmad Almarashli</b>
16:00 – 16.30	<b>Coffee Break (WILT Foyer)</b>		
16.30 – 17.45	<b>Session Tu3A: Analog, Digital and Mixed Circuits &amp; Systems III</b> <i>Room: WILT LT</i> <i>Session Chairs – Sinead O’Keeffe</i>	<b>Session Tu3B: Simulation and Modelling II</b> <i>Room: WILT Sem 112A</i> <i>Session Chairs – Nuno Horta</i>	<b>Session Tu3C: Signal Processing</b> <i>Room: WILT Sem 112B</i> <i>Session Chairs – Edward Wasige</i>
16:30	2560 “TCO-PUF: A Subthreshold Physical Unclonable Function” <b>Mohd Syafiq Mispan</b>	2838 “Connection and Resource allocation of IoT sensors in cellular technology – LTE” <b>Darshana Thomas</b>	2692 “Low Complexity All-Pass Based Polyphase Decimation Filters for ECG Monitoring” <b>Yaprak Eminaga</b>
16:45	2559 “Sub-Picosecond-Jitter Clock Generation for Interleaved ADC” <b>Jianping Gong</b>	2683 “Analysis of the Source/Drain Parasitic Resistances and Capacitances depending on geometry of FinFETs” <b>Jay Pathak</b>	2682 “Compressed Fresnel Beamformer for Portable Ultrasound Imaging System” <b>Avinash Vaidya</b>
17:00	2556 “A Hybrid TDoA/RSSI Model for Mitigating NLOS Errors in FMCW Based Indoor Positioning Systems” <b>Belal Al-Qudsi</b>	2650 “TCAD-based Methodology for Reliability Assessment of nanoscaled MOSFETs” <b>Razaidi Hussi</b>	2589 “Image segmentation using linked mean-shift vectors with region attribution analysis” <b>Hanjoo Cho</b>
17:15	2550 “Interleaved SAR ADC for in-pixel conversion in future X-ray FEL application” <b>Luca Lodola</b>	2628 “Modelling and Experimental Verification of a Ge/SiGe Thermoelectric Generator” <b>Ameze Odia</b>	2558 “Power Analysis of a Lossless Data Compression Technique for Wireless Wearable Biometric Devices” <b>Chengliang Dai</b>
17:45		2595 “Platform Based Design of 3D Hall Sensor Conditioning Electronics” <b>Luca Sarti</b>	2544 “EMG analysis for identifying walking patterns in healthy males” <b>Dinesh Bhatia</b>
18:30	<b>Welcome Drinks Reception – Glasgow City Chambers</b>		

<b>Wednesday, 1<sup>st</sup> July (Day 2)</b>			
8.45 – 9.30	<b>Plenary W1: Integrated Circuits for Sensors</b> Professor David Cumming, University of Glasgow, UK <i>Room: WILT LT; Session Chairs – Ravinder Dahiya</i>		
9.30 – 10.00	<b>Marie Skłodowska-Curie actions for successful careers in R&amp;I</b> Ms. Kamila Partyka, European Commission <i>Room: WILT LT; Session Chairs – Ravinder Dahiya, Joe Galloway</i>		
10.00 – 10.30	<b>Coffee Break (WILT Foyer)</b>		
10:30 – 12:00	<b>Session W1A: VLSI</b> <i>Room: WILT LT;</i> <i>Session Chairs - Maurizio Valle</i>	<b>Session W1B: Simulation and Modelling III</b> <i>Room: WILT Sem 112A</i> <i>Session Chairs – Salvatore Amoroso</i>	<b>Session W1C: Analog, Digital and Mixed Circuits &amp; Systems IV</b> <i>Room: WILT Sem 112B</i> <i>Session Chairs – Izzet Kale</i>
10:30	2625 “Floating Point Adder/Subtractor Units Realization by Efficient Arithmetic Circuits” <b>Sreehari Veeramachaneni</b>	2581 “Prediction of NMOS VTh degradation, under DC hot carrier stress conditions, using a simulation reliability” <b>Insaf Lahbib</b>	2656 “A 10-bit 150 MS/s Current Mode SAR ADC in 90 nm CMOS” <b>Abdelrahman Elkafrawy</b>
10:45	2615 “Analysis and Mitigation of Single Event Upset in ARM-based SoPC on Xilinx Virtex-V FPGA” <b>Boyang Du</b>	2578 “Barrier Non-Uniformity of Annealed Ni/4H-SiC Schottky Contacts with Temperature” <b>Gheorghe Pristavu</b>	2836 “A 90-dB DC Gain High-Speed Nested Gain-Boosted Folded-Cascode Opamp” <b>Sanfeng Zhang</b>
11:00	2564 “Investigating The Impact of On-Chip Interconnection Noise on Dynamic	2573 “Investigation of an AGC for Audio Applications”	2632 “An 8-phase 10 GHz Voltage Controlled Ring Oscillator for 40 Gbit/s

	Thermal Management Efficiency" <b>Somayeh Rahimipour</b>	<b>Seyediman Haerizadeh</b>	BiPON Clock-and-Data Recovery" <b>Arno Vyncke</b>
11:15	2549 "A generic topology selection method for analog circuits demonstrated on the OTA example" <b>Andreas Gerlach</b>	2565 "Balanced Current Source Model of the Three-input Combinational Logic Gate for Timing Analysis" <b>Kai Chen</b>	2606 "A Multi-Functional Reconfigurable Low-Power Ultra-High PSRR CMOS Reference-System" <b>Christopher Soell</b>
11:30	2535 "Variable Latency Speculative Han-Carlson Adders Topologies" <b>Darjn Esposito</b>	2516 "Communication Energy constrained spare core on NoC" <b>Naresh Reddy</b>	2614 "Memristor-Based Comparator with Programmable Hysteresis" <b>Olufemi Akindele Olumodeji</b>
11:45		2591 "A Fuzzy-Logic based Voltage-Frequency Controller for Network-on-Chip Routers" <b>Hai-Phong Phan</b>	2620 "Very High-Speed CMOS Comparators for multi-GS/s A/D Converters" <b>Dante Gabriel Muratore</b>
12:00 – 13:30	<b>Networking Lunch and Company Fair (WILT Foyer)</b>		

13:30 – 14:15	<b>Session W2A: Emerging Technologies</b> <i>Room: WILT LT</i> <i>Session Chairs – Marc Sorel</i>	<b>Session W2B: Material and Process Challenges</b> <i>Room: WILT Sem 112A</i> <i>Session Chairs – David Moran</i>	<b>Session W2C: Energy Harvesting</b> <i>Room: WILT Sem 112B</i> <i>Session Chairs – Alessandro Fraleoni Morgera</i>
13:30	2804 "Polarisation selective Bragg filters on silicon-on-insulator" <b>Charalambos Klitis</b>	2796 "VLS Growth Mechanism of Si-Nanowires for Flexible Electronics" <b>Dhayalan Shakthivel</b>	2570 "Conduction mechanisms in Al-Ta2O5-Al2O3-Al rectifiers" <b>Ayendra Weerakkody</b>
13:45	2576 "Characterisation and Modelling of Mg Doped ZnO TFTs" <b>Andrew Shaw</b>	2541 "Synthesis of Graphene on Ultra-Smooth Copper Foils for Large Area Flexible Electronics" <b>Emre Ozan Pollat</b>	2553 "Ultra Low Voltage Supervisor For Energy Scavenging Systems" <b>Alessandro Liberal</b>
14:00	2663 "A Circuit for Linearly Decreasing Temperature SET Programming of PCM based on Ge-rich GST" <b>Athanasios Kiouseloglou</b>	2745 "Energy-band structure of atomic layer deposited Al2O3 & sulphur passivated molecular beam epitaxially grown (110) In0.53Ga0.47As surfaces" <b>Yenchun Fu</b>	
14:15		2580 "Band Alignment of Ta2O5 on Sulphur Passivated Germanium by X-ray Photoelectron Spectroscopy" <b>Mohammed Althobaiti</b>	
14:30 – 15:00	<b>Coffee Break (WILT Foyer)</b>		
15:00 – 18:00	<b>Tour and tasting event, Glengoyne Whisky Distillery</b>		
19:00 – 21:00	<b>Conference Dinner, Òran Mór</b>		

<b>Thursday, 2nd July (Day 3)</b>			
8.45 – 9.30	<b>Plenary Th1: The Post-Moore Life</b> Dr. Sani Nassif, Radyalis LLC, Austin, USA <i>Room: WILT LT; Session Chairs – Asen Asenov</i>		
9:30 – 10:00	<b>Impact through Engagement</b> Dr. Jamie Gallagher, University of Glasgow, UK <i>Room: WILT LT; Session Chairs – Asen Asenov</i>		
10.00 – 10.30	<b>Coffee Break (WILT Foyer) and Company Fair (WILT Sem 114)</b>		
10.30 -12.15	<b>Session Th1A: Analog, Digital and Mixed Circuits &amp; Systems V</b> <i>Room: WILT LT</i> <i>Session Chairs – Catherine Dehollain</i>	<b>Session Th1B: Flexible Electronics</b> <i>Room: WILT Sem 112A</i> <i>Session Chairs – Helena Gleskova</i>	<b>Session Th1C: SoC Applications</b> <i>Room: WILT Sem 112B</i> <i>Session Chairs – Anne Bernassau</i>
10:30	2545 "Broadband Variable Gain Amplifier with Very Low Phase Variation in 28 nm CMOS" <b>Elena Sobotta</b>	"Inkjet printing of organic semiconducting single crystals onto patterned electrodes for direct X-rays detection applications" <b>A. Fraleoni-Morgera</b>	2684 "A Self-Adaptive and Reliable Protocol for Wireless Multimedia Sensor Networks" <b>Xuan-Thuan Nguyen</b>
10:45	2542 "Fully Integrated Wideband sub-10GHz Radio Frequency Front End with Active Matching" <b>Niko Joram</b>	2661 "Flexible Temperature sensors based on Charge Modulated Organic Thin Film Transistors" <b>Piero Cosseddu</b>	2605 "Hardware-assisted Secure Communication for FPGA-based Embedded Systems" <b>Ahmed Saeed</b>
11:00	2512 "Integrated Differential Three-Level High-Voltage Pulser Output Stage for CMUTs" <b>Pere Llimos Muntal</b>	2690 "Towards Bendable CMOS Magnetic Sensors" <b>Hadi Heidari</b>	2525 "WarmPie: A Bare-Bones Implementation of Message Passing Interface for Embedded Many-Cores" <b>Kui Wang</b>
11:15	2511 "Reliability Analysis of Comparators" <b>Illani Mohd Nawi</b>	2702 "Si Microwires based FETs on Flexible Substrates" <b>Saleem Khan</b>	2613 "Network Traffic Exploration on a Many-Core Computing Platform" <b>Gengting Liu</b>
11:30	2508 "low voltage operational amplifier cell with extended input common mode range for high voltage current sensing applications" <b>Razvan Puscasu</b>	2527 "Design Of A High Gain Organic Comparator For Use In Low-Cost Smart Sensor Systems" <b>Ruth Wanjau</b>	
11:45	2477 "Techniques for Maximizing Input Handling and Improving Linearity of Gain Interpolating VGAs" <b>Mohammed El-Shennawy</b>	2626 "Stretchable Interconnects using Screen Printed Nanocomposites of MWCNTs with PDMS and P(VDF-TrFE)" <b>Wenting Dang</b>	
12:00	2863 "An Extended Temperature Range UHF RFID Front-end in CMOS 350 nm" <b>Michele Caselli</b>	2571 "Finite Element Analysis of uniaxial bending of ultra-thin Silicon dies embedded in flexible foil substrates" <b>Nagarajan Palavesam</b>	
12.15 –13.45	<b>Networking Lunch (WILT Foyer) and Company Fair (WILT Sem 114)</b>		

13.45 – 14.30	<b>Plenary Th2: Remote Metabolism Monitoring in Animal Models and Humans</b> Dr. Sandro Carrara, EPFL, Switzerland <i>Room: WILT LT; Session Chairs – Leandro Lorenzelli</i>		
14:30 – 15.30	<b>Session Th2A: CMOS Sensor Design</b> <i>Room: WILT LT; Session Chairs – Sinead O’Keeffe</i>	<b>Session Th2B: Power Electronics</b> <i>Room: WILT Sem 112A; Session Chairs – Dinesh Bhatia</i>	<b>Session Th2C: Analog, Digital and Mixed Circuits &amp; Systems VI</b> <i>Room: WILT Sem 112B; Session Chairs - Catherine Dehollain</i>
14:30	2685 “Application-Specific Optimization of Optical Sensors Based on Single-Photon Avalanche Diodes” <b>Alexander Schwinger</b>	2627 “AlN/GaN HEMT Technology with in-situ SiNx Passivation” <b>Abdullah Al-Khalidi</b>	2574 “A High-Sensitivity Reconfigurable Integrating Dual-Slope CDC for MEMS Capacitive Sensors” <b>Javier Perez Sanjurjo</b>
14:45	2646 “Pressure-based intelligent stent for restenosis control” <b>Jose Angel Miguel Diaz</b>	2588 “Concept of a Stacked Feedback PA with On-Chip Auto-Adjusted Base Voltage of Upper Transistor” <b>Robert Paulo</b>	2864 “A programmable Power-on-Reset Circuit for auto-motive applications” <b>Luca Giuffredi</b>
15:00	2554 “A High Speed High Resolution Readout with 14-bits Area Efficient SAR-ADC Adapted for New Generations of CMOS Image Sensors” <b>Sassi Ben Aziza</b>	2563 “Electromagnetic Evaluation of Class-D Switching Schemes” <b>Timucin Karaca</b>	2548 “Fast Switch Bootstrapping for GS/s High-Resolution Analog-to-Digital Converter” <b>Athanasios Ramkaj</b>
15:15	2568 “High Level Model of SPAD based Pixel” <b>Rabih Kzma</b>		2562 “An Efficient Adaptive Voltage Scaling using Delay Monitor Unit” <b>Ahmad Kharaz</b>
15.30 – 16.00	<b>Coffee Break (WILT Foyer)</b>		
16.00 – 16.45	<b>Closing Address and Award ceremony</b> - Professor Steve Beaumont, Vice Principal Emeritus, University of Glasgow <i>Room: WILT LT</i>		