

Conference programme - Day 1



innoLAE
2019

08:30 - 09:00	Registration, tea/coffee on arrival		
09:00 - 10:10	Session 1: Welcome Keynote address: Karl Leo* , <i>IAPP, TU Dresden</i> . Novel high-performance organic transistor structures		F.C.A
10:10 - 10:40	Break		
10:40 - 12:45	Session 2: Applications of LAE F.C.A .1) 2.1 Ashutosh Tomar* , <i>Jaguar LandRover</i> . Applications of flexible and hybrid electronics in the car 10:40 - 11:05 .2) 2.2 Ravinder Dahiya , <i>University of Glasgow</i> . Biodegradable cloth with printed electrodes for sensors and energy storage devices 11:05 - 11:30 .3) 2.3 Simon Johnson and Tim Moor , <i>Centre for Process Innovation-HP1 Technologies</i> . Large area pressure sensor system for critical injury diagnosis 11:30 - 11:55 .4) 2.4 Pascal Cachelin , <i>Cambridge Display Technology</i> . Low power gas sensors for distributed monitoring for post-harvest applications 11:55 - 12:20 .5) 2.5 Suman Nandy , <i>Universidade NOVA de Lisboa</i> . Smart power emerging energy device (SPEED) 12:20 - 12:45	Session 3: Manufacturing for printed electronics R.F.P 3.1 Vivek Subramanian* , <i>Ecole Polytechnique Federale de Lausanne (EPFL)</i> . Tools and processes for printed electronic systems 3.2 Grigorias Rigas , <i>M-Solv</i> . Additive and subtractive manufacturing for large area printed electronics 3.3 Maxime Harnois , <i>IETR -CNRS</i> . Water transfer printing technology for large area 3D conformable electronics 3.4 Yin Cheung Lau , <i>Swansea University</i> . Pushing the limits of screen printing: Consistent and mass-producible 25 micron conductive tracks 3.5 Dan Curtis* , <i>Swansea University</i> . Printed process control through advanced rheometry	
12:45 - 14:00	Lunch, posters and exhibition		
14:00 - 14:45	Session 4: Keynote address: Marco Meloni* , <i>Ellen MacArthur Foundation</i> . The circular economy opportunity		F.C.A
14:45 - 15:10	Break		
15:10 - 17:15	Session 5: LAE devices and circuits (1) F.C.A .1) 5.1 Juan Pablo Prieto-Ruiz* , <i>Saule Technologies</i> . Flexible perovskite solar cells 15:10 - 15:35 .2) 5.2 Derek Peden , <i>DesignLED Products</i> . OLED alternative with inorganic LED based technology for diffuse lighting products 15:35 - 16:00 .3) 5.3 Tanyaradzwa Mangoma , <i>University of Cambridge</i> . Additive manufacturing of neuromorphic devices 16:00 - 16:25 .4) 5.4 Sanjiv Sambandan , <i>Indian Institute of Science/ University of Cambridge</i> . Stretchable self-healing interconnects 16:25 - 16:50 .5) 5.5 Henning Sirringhaus & Krishna Persaud* , <i>University of Cambridge-University of Manchester</i> . Integrated, solar-powered gas cards based on hybrid analogue amplifiers integrated with organic transistor sensors 16:50 - 17:15 <i>[Please note that workshop timings differ!]</i>	Session 6: High performance materials for LAE R.F.P 6.1 Stephen Hodge* , <i>Versarien</i> . Graphene enhanced products 6.2 Francisco Rodriguez , <i>Cambridge Display Technology</i> . Solution processed organic photodetectors for the near infrared 6.3 Mehmet Tas , <i>University of Surrey</i> . Highly conductive, compressible, vertically-aligned-CNT-PDMS-metal composite films as strain sensors 6.4 Hanleem Lee , <i>University of Cambridge</i> . Material engineering of 2D materials for realizing the electronics from TFT to electrochemical devices 6.5 Cinzia Casiraghi* , <i>University of Manchester</i> . Water-based, biocompatible and inkjet printable 2D-inks	Session 7: Workshop - Science, technology & commercialisation of electronic textiles J.W.P (15:10) 7.1 Theodore Hughes-Riley* , <i>Nottingham Trent University</i> . Microchips in yarns - a revolutionary new approach to manufacturing intelligent garments (15:30) 7.2 Kay Ullrich* , <i>TITV</i> . Working with smart textiles – about materials, processes, products and their testing (15:50) 7.3 Francesc Mañosa Moncunill* , <i>Eurecat</i> . Integration of fibre-based electronic devices into textile structures (16:10) 7.4 Felice Torrisi* , <i>University of Cambridge</i> . Washable and wearable electronic textiles enabled by two-dimensional materials (16:30) 7.5 James Hayward , <i>IDTechEx</i> . The integration of flexible electronics within wearable electronic devices (16:50) 7.6 Panel Discussion
17:15 - 19:00	Poster session & poster prize award ceremony		
19:00 - 19:30	Transport to Queen's College		
19:30	Conference Dinner		

08:30 - 09:00	Tea/coffee on arrival	
09:00 - 10:10	Session 8: Welcome F.C.A Keynote address: Janos Veres* , <i>Palo Alto Research Center (PARC)</i> . Printing the IOT Plenary address: Simon Johnson* , <i>Centre for Process Innovation (CPI)</i> . Large area and printable electronics comes of age	
10:10 - 10:40	Break	
10:40 - 12:45	Session 9: Manufacturing LAE systems F.C.A .1) 10:40 - 11:05 9.1 Richard Price* , <i>PragmatIC</i> . Transforming manufacturing to deliver trillions of smart objects .2) 11:05 - 11:30 9.2 Mike Clausen , <i>Centre for Process Innovation</i> . Smart hybrid electronics: addressing the scale up challenge .3) 11:30 - 11:55 9.3 Andrew Holmes* , <i>Imperial College London</i> . Integration technologies for flexible hybrid electronics .4) 11:55 - 12:20 9.4 Jeff Kettle , <i>Bangor University</i> . High performing AgNWs transparent conducting electrodes with 2.5Ω/Sq based upon roll-to-roll compatible post processing technique .5) 12:20 - 12:45 9.5 Antti Keranen* , <i>TactoTek</i> . Designing and making parts using injection molded structural electronics (IMSE™)	Session 10: Bioelectronics R.F.P 10.1 Magnus Berggren* , <i>Linköping University</i> . Large scale integrated organic bioelectronics – nature connected 10.2 Henrique Gomes , <i>Universidade do Algarve</i> . Conducting polymer based electrodes: A new tool to explore bioelectrical signals inaccessible using conventional electrophysiological methods 10.3 Jean Manca , <i>Universiteit Hasselt</i> . Living electrical nanowires: a new paradigm for bio- and organic electronics? 10.4 Christopher Proctor , <i>University of Cambridge</i> . Microfluidic ion pumps for seizure control 10.5 Jamie Marland* , <i>The University of Edinburgh</i> . Implantable microsystems for personalised anti-cancer therapy
12:45 - 13:45	Lunch and exhibition	
13:45 - 15:50	Session 11: LAE devices and circuits (2) F.C.A .1) 13:45 - 14:10 11.1 Junichi Takeya* , <i>Tokyo University</i> . Organic single-crystal transistors and integrated circuits .2) 14:10 - 14:35 11.2 Moon Hyo Kang , <i>University of Cambridge</i> . Air-stable hybrid CMOS operational amplifier on flexible substrates .3) 14:35 - 15:00 11.3 Chuck Milligan* , <i>FlexEnable</i> . Industrialization of game-changing OTFT based flexible displays and sensors .4) 15:00 - 15:25 11.4 Pedro Barquinha , <i>Universidade NOVA de Lisboa</i> . Flexible oxide electronics: from TFT models to circuit integration .5) 15:25 - 15:50 11.5 Gwen Wyatt-Moon* , <i>University of Cambridge</i> . Schottky diodes with >1 GHz cut-off frequency fabricated from a-IGZO using adhesion lithography <i>[Please note that workshop timings differ!]</i>	Session 12: Workshop - LAE and the Circular Economy R.F.P (13:45) 12.1 Chris Rider , <i>CIMLAE</i> . Introduction to the workshop (14:00) 12.2 Clement Gaubert* , <i>Veolia</i> . Waste management and compliance considerations for LAEs (14:20) 12.3 Sophie Verstraelen* , <i>Organic and Printed Electronics Association</i> . OE-A's initiative on sustainability (14:35) 12.4 Gillian Ewers* , <i>PragmatIC</i> . A smart approach to reduce waste (14:50) 12.5 Danick Briand , <i>Ecole Polytechnique Federale de Lausanne (EPFL)</i> . Towards greener electronics: biodegradability and biomining (15:15) 12.6 Panel Discussion
15:50	Close and refreshments	

* Invited Speaker

F.C.A: Francis Crick Auditorium - The auditorium in the centre of the venue

R.F.P - Rosalind Franklin Pavilion - A large room located off the main exhibition space

J.W.P - James Watson Pavillion - A large room located off the main exhibition space