

Day 1 - Wednesday 22nd February 2023

08:00 **Registration - Browse the Posters and Exhibition Stands**

09:00 **Session 1 (FCA)** Dr Tim Phillips, innoLAE 2023 Welcome to Day 1

09:05 **Session 1 (FCA)** Gold Sponsor Presentation - Optomec

09:20 **Keynote 1 (FCA)** Dr Juha Virtanen, GE Healthcare Wearable patient monitoring sensors for intra-hospital use

10:05 **Break - Sponsor Exhibitions & Posters**

<p>10:35 Session 2 Manufacturing (FCA) Chair: Dr Neil Chilton, Printed Electronics Limited</p> <p>2.1 Prof Daniel Frisbie, University of Minnesota (Invited) Self-aligned, roll-to-roll compatible manufacturing of printed conductors and devices</p> <p>2.2 Prof Aldo Di Carlo, University of Rome Tor Vergata (Invited) Scaling-up perovskite photovoltaic to modules and panels</p> <p>2.3 Tammy Sue Wuen Leung, Institute of Microelectronics of Barcelona (IMB-CNM) Novel metal salt decomposition inks for low temperature conductive film development on flexible substrates</p> <p>2.4 Zhe Shu, Hahn-Schickard Institute of Microanalysis Systems Direct conductive metal printing for one-step fabrication of hybrid flexible electronics</p> <p>2.5 Behnam Madadnia, IMEC Using heat-mask in thermoforming machine for component positioning in thermoformed electronics</p>	<p>Session 3 Bioelectronics I (RFP) Chair: Prof George Malliaras, University of Cambridge</p> <p>3.1 Prof Luisa Petti, Free University of Bozen-Bolzano (Invited) Functional materials and devices for emerging bioelectronic interfaces</p> <p>3.2 Prof Elisabetta Dimaggio, Università di Pisa (Invited) Printable and wearable electronics enabled by two-dimensional materials</p> <p>3.3 Henrique Leonel, University of Coimbra Low noise organic based devices to access faint signals produced by populations of living cells: applications in anticancer drug screening platforms</p> <p>3.4 Ruben Ruiz-Mateos Serrano, University of Cambridge A wearable cardiac activity mapping system</p> <p>3.5 Aimee Sweeney, University of Surrey Cabbage and blackberry for better vision: use of natural dyes for photosensitive organic semiconductor devices towards artificial retina</p>
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12:40 **Lunch - Sponsor Exhibitions & Posters**

14:00 **Session 4 (FCA)** Silver Sponsor Presentation - SISTEM Technology

14:10 **Keynote 2 (FCA)** Dr Sebastian Meier, ASCA Photovoltaics reshaped – unlimited design opportunities enabled by printed organic solar cells

14:55 **Break - Sponsor Exhibitions & Posters**

<p>15:25 Session 5 Novel Devices & Systems I (FCA) Chair: Cathy Curling, Curling Consulting</p> <p>5.1 Dr Steffen Thrane Vindt, InnoCell (Invited) The next generation of environmentally friendly supercapacitors for energy storage</p> <p>5.2 Prof Harish Bhaskaran, University of Oxford (Invited) Novel nanomanufacturing processes for next-generation devices</p> <p>5.3 Michael Banach, FlexEnable Ultra-thin and light active liquid crystal cells for optics applications</p> <p>5.4 Francisco Molina-Lopez, KU Leuven Printed and flexible high-performance thermoelectrics for wearables and other low-scale energy harvesting applications</p> <p>5.5 Douglas Henrique Vieira, São Paulo State University Study of ZnO liquid-gated transistors using honey as electrolytic dielectric layer</p>	<p>Session 6 Bioelectronics II (RFP) Chair: Dr Simon Johnson, CPI</p> <p>6.1 Dr Simone Fabiano, Linköping University (Invited) Neuromimicking organic electronics: materials and challenges</p> <p>6.2 Eleonora Ferraris, KU Leuven Emerging trends in aerosol jet based printing: from printed electronics to bioelectronics</p> <p>6.3 Elliot Strand, University of Colorado Printed organic electronic devices for plant health monitoring and precision agriculture</p> <p>6.4 Valeria Criscuolo, RWTH Aachen University A novel approach for bioelectronic devices featuring PEDOT:PSS 3D microstructures</p> <p>6.5 Luís Miguel Pinheiro Sousa, CeNTI Printed insole for risk posture detection in industrial environment</p>
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17:30 **Networking Reception with drinks & snacks**

19:00 **Coach** Coach to Robinson College, leaving at 19:00

19:20 **Gala Dinner** Gala Dinner at Robinson College

22:00 **Coach** Coach back to Hinxton Hall Conference Centre, leaving at 22:00

Day 1 Ends

*** FCA = Francis Crick Auditorium, RFP = Rosalind Franklin Pavilion

Day 2 - Thursday 23rd February 2023

09:00	Session 7	Dr Tim Phillips, innoLAE 2023	Welcome to Day 2
09:05	Keynote 3	Prof Natalie Stingelin, Georgia Tech	Flexible electronics: challenges and opportunities – a materials science view
09:50	Break - Sponsor Exhibitions & Posters		
10:20	Session 8	Novel Devices & Systems II	Session 9 High Performance Materials I
	8.1	Prof Xavier Crispin, Linköping University (Invited) Towards printed lignin-based batteries	9.1 Prof Thuc-Quyen Nguyen, University of California (Invited) Organic semiconductors for application in near-IR photodetectors
	8.2	Sheng Yong, University of Southampton Zinc ion battery fabricated in a single textile layer	9.2 Emilie Gerouville, University of Southampton Polyoxometalate-based nanoscale electronic devices
	8.3	Konstantinos Rogdakis, Hellenic Mediterranean University Memristive perovskite solar cells towards parallel solar energy harvesting and processing-in-memory computing	9.3 Bálint Fodor, Semilab Semiconductor Physics Laboratory Comprehensive contactless electrical and optical characterization of perovskite solar cell structures
	8.4	Alessandro Grillo, University of Manchester Inkjet printed graphene-based diodes	9.4 Tommaso Losi, Istituto Italiano di Tecnologia High mobility solution-processed organic semiconducting blends for high speed and low voltage electronics
	8.5	Jinxin Bi, University of Surrey A modular flexible photo-rechargeable zinc-ion battery for wearable electronics	9.5 Haoxin Gong, University of Cambridge Degradation in small-molecule transistors: understanding the role of trap states at the metal-semiconductor interface
12:25	Lunch - Sponsor Exhibitions & Posters		
14:00	Session 11	High Performance Materials II and Novel Devices & Systems III	Session 12 Applications and Sustainability & Energy Efficiency
	11.1	Tom Eldridge, CHASM (Invited) CNT hybrid transparent conductive films; enabling a safer, more connected world	12.1 Prof Clara Santato, Polytechnique Montréal (Invited) Printed organic electronics from biomass
	11.2	Dr Matthew Dyson, IDTechEx Opportunities for thin film and flexible photovoltaics	12.2 Jerome Joimel, Isorg (Invited) OPD roadmap – How printed electronic creates innovative imaging applications and products
	11.3	Tahereh Nemataram, University of Liverpool On the largest possible mobility of molecular semiconductors and how to achieve it	12.3 Joana Pronto, CeNTI Printed sensors on thermoformed eco-sustainable foam for automotive application
	11.4	Dr Xinkai Qiu, University of Cambridge Photosystem I: from ensemble junctions to functional devices	12.4 Evangelia Founta, University of Southampton Towards flexible and sustainable energy storage: molecular-scale understanding of nanocellulose/graphite battery electrodes
	11.5	Guilherme Mendes Ferreira, Nova University Lisbon Smart IoT electronic paper for interactive security applications	12.5 Tom Askew, CPI Advanced light-weight battery systems optimized for fast charging, safety, and second-life applications (ALBATROSS Project)
16:05	Session 13	Speaker Prize & Poster Prize	
16:20	Break - Sponsor Exhibitions & Posters		

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