

January
22 | 23

2019

innoLAE
2019

Innovations in Large-Area Electronics Conference

Wellcome Genome Campus, Cambridge, UK

The latest in research, manufacturing, integration and application of LAE

www.innolae.org

Call for papers

Large-Area Electronics (LAE) is a new way of making electronics and includes printed, flexible, plastic, organic and bio- electronics. LAE has the potential to both open up new markets for electronics and to expand existing products by adding new form factors, new functionality and enabling new cost structures. Applications abound in high growth industrial sectors such as healthcare and medical, sport and fitness, fast moving consumer goods, automotive, the Internet of Everything, printing and packaging and smart wearables. The new form factors and flexibility possible with LAE allow electronic systems to be deployed in a wide variety of non-traditional situations: in and on paper, plastic, textiles, furniture, cars and buildings, as well as on packaging and even in and on the human body.

innoLAE 2019 represents a unique opportunity to hear the latest developments from academic and industrial teams active in LAE research and technology, including keynotes and invited talks from leading international organisations.

Our fifth annual conference, **innoLAE 2019** will be on January 22-23, 2019 at the Wellcome Genome Campus, Cambridge, UK, presenting a varied 2-day programme featuring contributions from academia and industry, highlighting the most recent and exciting innovations in LAE and new products incorporating LAE technologies. **innoLAE 2019** will offer both plenary and parallel track oral presentations, a poster session with prizes awarded to the most promising scientific and technical developments, an exhibition with leading companies and organizations showcasing their latest products and developments, and networking opportunities, including a reception and a conference gala dinner at Queens' College, Cambridge, UK.

We invite contributions to the conference programme on topics relating to LAE such as:

1. Manufacturing of LAE

- Addressing the challenges and opportunities of non-traditional substrates e.g. paper, plastics, metal, fabrics, living tissue
- Improved and novel processes for LAE manufacturing offering higher throughput, functionality, yield or lower cost
- Entirely new paradigms for LAE manufacturing
- Tackling the challenges of scale-up in LAE manufacturing, including metrology, yield, lean manufacture and design for manufacturing

2. High-performance materials for LAE

- e.g. organic semiconductors, metal oxides, 2D and layered materials, conductors, novel dielectrics, quantum dots, magnetic materials, stretchable and biocompatible materials, biodegradable substrates, etc. (not including production technologies for materials)

3. Novel and High-performance Devices and Architectures for LAE

- Transistors, diodes, sensors, optical emitters and detectors, etc.
- Energy harvesting and storage using LAE – (e.g. RF, piezo, thermal and solar harvesting, printable batteries and supercapacitors)
- Circuit elements e.g. amplifiers, A-D converters, multiplexers, microprocessors etc.
- Circuits incorporating LAE including multi-element LAE device arrays

Call for papers *(continued)*

4. LAE Systems

- Flexible displays – both emissive and reflective
- Flexible hybrid electronics - integrating organic or printed electronics with thinned and unpackaged conventional semiconductor devices,
- Stretchable and conformable electronics
- in-mould electronics

5. Applications of LAE

- Design of systems using LAE components for particular applications
- Application case studies of new LAE systems used in market trials
- LAE enabling applications in the Internet of Things, healthcare, automotive, consumer products, smart buildings and cities

6. Bioelectronics: LAE devices and systems for bioelectronics; new applications of bioelectronics; new business models for bioelectronics

7. NEW for 2019 - *Circular Economy and LAE*: End-of-life management; waste reduction; recycling and reuse of LAE materials, components and systems; Opportunities for LAE to enable the circular economy more generally

Submission

Abstracts for oral *and* poster presentations need to be submitted using the **Word document template** provided, [here](#). Your abstract file should then be uploaded, alongside your details, using the [online submission form](#). For further submission instructions see [the guidelines document](#).

A condition of submission is that, if accepted, the paper will be presented at the conference by one of the authors.

- **Selection Criteria:** The programme committee will select papers within conference scope to create a balanced programme based on degree of innovation, manufacturing advance and commercial opportunity.
- **Conference Rates:** Industry contributors whose papers are accepted for oral presentation may register for the conference at the discounted academic rate of £275 (standard registration rate is £425). Academic contributors will receive the academic rate of £275, or £175 for students.

Key dates

Deadline: Submit your abstract and biography by **30 September 2018** (changes will be accepted until deadline).

Notification: We aim to notify contributors of the Programme Committee's decision by **31 October 2018**.

innoLAE 2019 Programme Committee

Chris Rider, *Conference Chair, EPSRC Centre Director, University of Cambridge, UK*

Dr Mark Leadbeater, *EPSRC Centre Programme Manager, University of Cambridge, UK*

Dr David Bird, *Centre for Process Innovation Ltd, UK*

Dr Natasha Conway, *Beko, UK*

Cathy Curling, *Curling Consulting, UK*

Dr Ravinder Dahiya, *University of Glasgow, UK*

Dr Davide Deganello, *Swansea University, UK,*

Dr Dimitra Georgiadou, *Imperial College London, UK*

Dr Mark James, *Merck Chemicals Ltd, UK*

Prof Donald Lupo, *Tampere University of Technology, Finland*

Prof George Malliaras, *University of Cambridge, UK*

Prof Rodrigo Martins, *New University of Lisbon, Portugal*

Dr Luigi Occhipinti, *University of Cambridge, UK*

Prof Krishna Persaud, *University of Manchester, UK*

Dr Catherine Ramsdale, *PragmatIC, UK*

Prof Henning Sirringhaus, *University of Cambridge, UK*

Prof Martin Taylor, *Bangor University, UK*

Prof Luisa Torsi, *University of Bari, Italy*