The 6th annual Innovations in Large-Area Electronics Conference (innoLAE 2020) will be held at the Wellcome Genome Campus Conference Centre, Cambridge, UK on 21-22 January 2020.

The conference focuses on new ways to make electronics, leveraging novel processes and new functional materials to provide electronic functionality in thin, flexible and transparent designs.

Dates
21-22 January 2020

Venue
Wellcome Genome Campus Conference Centre
Cambridge, CB10 1RQ
The 6th annual Innovations in Large-Area Electronics Conference (innoLAE 2020) will be held at the Wellcome Genome Campus Conference Centre in Hinxton, Cambridge, UK on 21-22 January 2020. The two-day conference programme highlights the latest developments in large-area electronics (LAE) is a new way of making electronics including advances in materials, devices, systems, manufacturing processes and enablers such as encapsulation and barriers and hybrid integration of LAE with silicon electronics. Applications including lighting, energy harvesting and flexible photovoltaics, flexible and printed displays, sensors, integrated smart systems, e-textiles and bioelectronics are covered.

innoLAE attracts researchers, manufacturers, suppliers, integrators and users to explore this emerging technology and the development of products incorporating LAE. By attracting equal and growing interest from industry and academia, the innoLAE conference provides a unique and important platform for supporting innovation, building collaborations, knowledge sharing and, ultimately, promoting the growth of the field and advancing the state-of-the-art.

The conference delivers a high-calibre programme of parallel and plenary talks, hosts internationally-renowned keynote speakers, poster presentations, an exhibition showcasing leading companies’ latest developments and facilitates networking opportunities — including a gala dinner in the historic Old Hall of Queens’ College.

Having established itself as a key event for the LAE community, we look forward to innoLAE 2019 once again playing host to researchers from all over the world as they present the view from SMEs and large global companies, leading manufacturers and end-users, research and technology organisations and academia.

Excellnet networking opportunity and a good blend of companies, RTOs and academia.

— innoLAE 2016 delegate

...the mix of speakers and exhibitors is great - it really supports the principles of innovation.

— innoLAE 2017 delegate

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— innoLAE 2016 delegate

— innoLAE 2017 delegate

The innoLAE conference is designed to facilitate knowledge sharing between industry and academia to encourage collaboration, support innovation and, ultimately promote the growth of the field and advance the state-of-the-art. Over five years the innoLAE conference has grown steadily to become recognised as ‘the premier UK event’. The conference managed to attract equal and growing interest from both industry and academia - researchers, manufacturers, integrators and users. Since 2015, the conference and preceding industry day, received registrations from 807 unique delegates representing 323 institutions across 27 countries.

During this period of growth, the conference was able to maintain the unique academia: industry balance which makes it such a productive space. Many attendees list this mix of speakers and delegates as the most valuable and distinctive characteristic of the conference.

“Very useful for getting a sense of market needs and emerging ideas.”

industry day 2018 delegate

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“We expected to meet some development partners and we were VERY successful.”

industry day 2017 delegate

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industry day 2017 delegate
Feedback from innoLAE delegates across the past 5 years highlights their appreciation for the calibre and coverage of the conference programme as well as the balance between academic and industry delegates. innoLAE 2019 was no exception, setting conference records for the number of abstracts submitted, speakers presenting and posters displayed.

95% of delegates agreed that their participation in the conference was worthwhile.

Feedback on the venue and organization of the conference has also been consistently outstanding. In 2019, over 90% of 2019 delegates who responded to the feedback survey rated all aspects of the conference as good to excellent.
Large-Area Electronics (LAE) is a new way of making electronics including printed, flexible, plastic, organic and bio-electronics, with applications in sectors such as healthcare, fast moving consumer goods, automotive, internet of things, printing and packaging and smart wearables. The new form factors and flexibility possible with LAE allow electronics to be deployed in non-traditional situations: in and on paper, plastic, textiles, cars and buildings, as well as on packaging and even in and on the human body.

innoLAE 2020 conference themes

- Manufacturing LAE
- LAE devices and systems
- High performance materials for LAE
- LAE for energy
- Applications of LAE
- Bioelectronics
- Sustainability of LAE

The presentations are wide ranging - including talks on in-situ printed electronics for spacecraft, biodegradable printed sensors for soil monitoring, shape-adaptive implants interfaced with the spinal cord, integration of electronic functionalities into 3D printed products and innovative R2R process equipment.

Highlights include a session focussed on LAE for energy including printed batteries, perovskite PV, electrochemical energy storage and RF energy harvesting on textiles. Other sessions feature printed sensors particularly those based on e-textiles and wearable devices for healthcare.

The programme features speakers and poster presenters from 51 institutions, presenting the view from small and large global companies, leading manufacturers and end-users, research and technology organizations and academia.
### innoLAE timetable

#### DAY ONE

**09:00 - 10:15**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Location</th>
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<tr>
<td>1.1</td>
<td>Welcome</td>
<td>Queens' College</td>
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<tr>
<td>1.2</td>
<td>Keynote 1</td>
<td>Dr Eoin O’Shea*</td>
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#### Session 2: Novel devices and systems

- Dr Barbara Sindtke* - Silicon/germanium photoplastic systems for printed electronics
- Dr Merjay Gbadoun, TF/Host Centre - Printed, micromachined electronics for 3D printed products
- Dr Michael Johnson - Imperial College London - In-situ manufacturing of thin film superconductors, barriers and even vacuum sealing in complex geometries
- Dr Debasish Samanta - University of Cambridge, Institute of Science, Engineering and Technology - Self-healing printed film transistor circuits
- Dr Mario Coccia - INFN Milan - Direct-written and low-voltage polymer field-effect transistors

#### Session 3: Applications enabled by advanced manufacturing

- Dr Barbara Sindtke* - Silicon/germanium photoplastic systems for printed electronics
- Dr Michael Johnson - Imperial College London - In-situ manufacturing of thin film superconductors, barriers and even vacuum sealing in complex geometries
- Dr Debasish Samanta - University of Cambridge, Institute of Science, Engineering and Technology - Self-healing printed film transistor circuits
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#### Session 4: Primary

- Primary 4.1: Mr Mike Gassan - Large-area electronics – looking up to vacuum-manufacture
- Primary 4.2: Professor Maria Polini - University of Cambridge

#### Break

**12:30 - 14:00**

#### Session 5: Smart healthcare

- Session 5.1 - Dr Kiron Prabha Rajeev - Neuromorphic lead halide photoelectromonitors designed using small area-area transient inorganic vapour deposition

#### Session 6: Award for the best poster presentation

- The deadline for submission of abstracts for oral presentation at innoLAE 2020 has now passed, however we are still able to accept submissions for late news posters. Submit your abstract at: innoLAE.org/innoLAE-2020-abstract-submission/. The posters will be highlighted during the drinks reception on Tuesday afternoon and an award will be made by the Programme Committee.

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### Emerging technologies for displays

This year at innoLAE will feature a special seminar on flexible displays organised by SID (UK and Ireland). Displays are perhaps the most common form of large area electronics in our daily lives, with nearly a quarter of a billion m2 of display made annually. Today displays are predominantly made on glass using Silicon based approaches, but there are many emerging technologies using printed, flexible, plastic and organic approaches.

The session will take place on Tuesday January 21, 2020 at the innoLAE 2020 conference. It is being organised by the UK and Ireland chapter of the Society for Information Display (SID). Details of the programme will be announced shortly.

#### Late news posters

The deadline for submission of abstracts for oral presentation at innoLAE 2020 has now passed, however we are still able to accept submissions for late news posters. Submit your abstract at: innoLAE.org/innoLAE-2020-abstract-submission/.
innoLAE Industry Networking Day 2020

Monday 20 January 2020, 12:00 - 19:00
Wellcome Genome Campus, Hinxton, Saffron Walden, Cambridgeshire, CB10 1SA, United Kingdom

Register your interest
www.uk-cpi.com/innoLAE-2020

Reasons to attend
• Gain access to decision-makers associated with large-area electronics
• Learn from the leading companies active in large-area electronics
• Network with key players in the industry in one afternoon

Make connections: Accelerating innovation in flexible and hybrid electronics

innoLAE 2020 industry day is the UK’s leading networking event focusing on the industrialisation of printed and flexible electronics based technologies.

Come along to the industry day to gain access to decision-makers associated with large-area electronics. You will hear from industry experts on what the market drivers are and how the technology can be used across markets to get significant benefits. You’ll have an opportunity to be part of the networking session for 100 delegates and gain access to the leaders in research, technology innovation and manufacturing active today in flexible electronics.

Join CPI for this exciting event and come away with an understanding of how flexible hybrid electronics can benefit your business and the markets you work in.

Drinks and canapés will be provided in the networking session which will round off the event and lead into the innoLAE 2020 conference the following day.

Short Courses

IMI Europe is providing two short courses on fabrication and processing technologies on January 20, 2020 the day preceding innoLAE 2020.

Wet processing technologies for large-area electronics
The Wet Processing Short Course is delivered by Printed Electronics Ltd (PEL) and the Centre for Process Innovation (CPI). It covers the inks and printer technology required for deposition techniques including screen, inkjet and flexo/gravure printing. The short course also covers coating techniques such as doctor blade and slot die, drawdown, spin and spray coating. In each case the advantages, disadvantages and technological challenges of each technique will be covered, along with issues arising in scale up for manufacture.

Dry processing technologies for large-area electronics
The Dry Processing Short Course is delivered by the Centre for Process Innovation (CPI). It covers the key processing techniques required for large area electronic device manufacture, including vacuum deposition, photolithography, laser ablation and wet and dry etching. In each case the advantages, disadvantages and technological challenges of each technique will be covered, along with issues arising in scale up for manufacture.

Date: 20 January 2020
Time: 09:00-12:30, 13:00-17:00
Venue: Wellcome Genome Campus Conference Centre
Registration:
• £225 per course
• £400 both courses
• £325 if also book conference place
More Information: innoLAE/short-courses
Continue your casual networking and unwind in true Cambridge style at the conference gala dinner - hosted in the historic ‘Old Hall’ of Queens College

Who should attend?

- Researchers
- Business Development professionals
- End-users
- Process developers
- Manufacturing engineers
- Technology scouts

Why should you attend?

- Gain access to key decision-makers in the UK LAE community
- Hear the latest results from academics
- Learn from representatives of global companies active in the technology
- Form new partnerships with delegates, vendors and speakers
- Network with colleagues at the gala dinner and the drinks reception

Sectors

- Electronics and displays
- Sensors and devices
- Energy
- Printing and packaging
- Healthcare and biomedical
- Automotive
- Aerospace and defence

‘It was great to see a combination of state-of-the-art academic research & industrial implementations of LAE.’

innoLAE 2018 speaker
Dr Daniel O’Connor, National Physical Laboratory

Queens College Old Hall © Dan Paton
Exhibit at innoLAE 2019

"Our company exhibited for a 3rd year at innoLAE and each year we find new collaborators and partners and I learn something new, which is great."

innoLAE 2017 exhibitor
DZP Technologies

Why exhibit?
- Highlight your company’s expertise to a highly targeted audience
- Raise brand awareness and recognition via logo and advertisement placement
- Leverage your exhibition through marketing campaigns and social media
- Generate leads and form new partnerships with delegates, vendors and speakers
- Demonstrate your products or services
- Find new talent for your organisation

On display at #innoLAE2018 with the latest Aerosol Jet samples. Glad to be partnering with Semitronics and @innoLAE in this beautiful venue!

Exhibit at innoLAE
£975 (+VAT) - includes one delegate registration and a standard table top with power. Additional company representatives can register at a discounted rate (£295).
Get involved - sponsor innoLAE 2019 to expand your visibility across the large-area electronics community.

Platinum - Sold out
£5,495 (+VAT)
- Conference attendance for 5 company representatives - including the gala dinner
- Double exhibition stand with table top
- One speaker/presentation slot
- Distribute company brochures in delegate bags
- Logo printed on every delegate’s name badge
- Acknowledgement of sponsorship at the gala dinner - e.g. printed on menus and mentioned during speech

Gold
£3,295 (+VAT)
- Conference attendance for 3 company representatives - including the gala dinner
- Standard exhibition stand with table top
- Promotion of company as poster prize sponsor, short presentation (a couple of slides) and awarding of prize to conclude poster session
- Distribute company brochures in delegate bags
- Additional representatives at reduced registration rate

Silver
£2,195 (+VAT)
- Conference attendance for 2 company representatives - including the gala dinner
- Standard exhibition stand with table top
- Additional representatives at reduced registration rate
- Sponsorship marketing package - detailed above

Premium sponsorship
All premium sponsorship opportunities come with the following marketing package:
- Sponsorship promoted online
  logos and hyperlinks on conference website and social media
- Logo displayed on prominent conference backdrops
  e.g. registration area banners, lecture theatre welcome screen
- Logo displayed on printed conference material
  e.g. marketing material, conference programme

Delegate bag sponsorship *
£1,250 (+VAT) One opportunity available
The bag sponsor’s logo will be printed, alongside the conference logo, onto the conference bag given to every attendee during registration.

Lanyard sponsorship *
£995 (+VAT) One opportunity available
The lanyard sponsor’s logo will be printed onto the nametag lanyards given to every attendee during registration.

Delegate bag insertions
£300 (+VAT) per item Limited opportunities available
Ensure that your marketing material is received by each conference attendee. This sponsorship places a single item of marketing material (e.g. brochure or small corporate gift) into each delegate bag. Material is limited to a single A4 sheet, or smaller folded items with no more than 6 sides.

Conference programme advertisement
£250 (+VAT) Limited opportunities available
Display a full page, full colour advertisement in a prominent location within our glossy conference programme, received by the majority of attendees, and available online.

Literature Table
Attendees: £100 (+VAT)
Non-Attendees: £200 (+VAT)
Make your literature available for delegates to read throughout the conference. This sponsorship allows for the display of a company leaflet/brochure/report on the literature table positioned in the registration area.

* The delegate bag and lanyard sponsorships also include the premium sponsorship marketing package, detailed on the previous page.

These sponsorships benefit from sustained branding through re-use post-event!
Please get in touch with us to discuss any sponsorship or exhibition queries you may have. We look forward to hearing from you!

Contact us at:
info@largeareaelectronics.org
+44 (0)1223 748345

@innoLAE @EPSRCCentreLAE innolae-annual-conference-&-exhibition

www.innoLAE.org