The Internet of Things: Emerging Electronics

Tuesday 15th March 2016
10:00 – 14:00
CPI, NETPark, County Durham, TS21 3FG

What is Emerging Electronics and the Internet of Things?

Printable electronics is not an end in itself, but rather an enabling technology. The development of printable electronics will deliver new and exciting hybrid electronic applications that incorporate the functional benefits of flexible electronics but also the efficiency and durability of traditional electronics.

The Internet of Things represents an evolution in which objects are capable of interacting with other objects. Hospitals can monitor and regulate pacemakers long distance, factories can automatically address production line issues and hotels can adjust temperature and lighting according to a guest's preferences, to name just a few examples. Printable Electronics is aligned with this emerging technology through the opportunities that the printing of electronic functionality and sensing brings to applications.

CPI is supporting the development of such components with a range of technology partners (including high growth SMEs) and is doing this with a specialist equipment set and industrial expertise. CPI has the capability to integrate printed electronics with conventional electronics to create new form factors for sensors, switches, power sources and data communication that be more readily embedded into print, packaging and moulded products, thus creating new smart products for the Internet of Things. The capability at CPI allows for the demonstration scale production of products and samples, enabling customers to produce trial quantities for market testing and investment purposes.

Themes

The Emerging Electronics Workshop at CPI will cover:

- *Combining the benefits of printed electronics and conventional electronics to create better products*
- *How to commercialise products for the Internet of Things*
- *A tour of CPI's printed electronics centre and a look into CPI's high speed integration capability that will be available from September 2016*

Presentations from:

Dr. Alan McClelland, Business Development Manager, CPI
"The Future of Emerging Electronics and CPI's High Speed Electronics Integration Capability"

Dr. Richard Price, Chief Technology Officer, PragmatIC
"Beyond Silicon – Electronics for a Flexible World"

Sharona Sente, Henkel,
"Adhesives for the Internet of Things"

Attendees from:

- World leading pharma, print, packaging and moulding companies
- Tier-1 product supply-chain companies
- Experts in printable electronics, integration and automated processes

CPI is the UK's National Centre for Printed Electronics, designed to help companies to take their innovative ideas from concept to production. We offer world class, open access capability in the scale up and commercialisation of printable electronics applications such as sensors, flexible electronic components and smart packaging products amongst others. Our facilities and expertise allow clients to understand how their products and processes perform under manufacturing conditions, accelerating their commercial realisation.

To register for the event please visit: **www.uk-cpi.com/iot**

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