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**Press Release**

## **From flexible technologies to Internet of Things: Printed electronics highlights at LOPEC 2016**

**LOPEC 2016, the International Exhibition and Conference for the Printed Electronics Industry, will open its doors at Messe München's trade show site between April 5 and 7 in Munich, Germany. Highlights will include smart labels, printed sensors and glass on roll as a substrate material.**

Printing processes are becoming increasingly prevalent in the production of smart electronic components: "With annual growth rates of around 20 percent, printed and organic electronics truly are a market of the future," points out Dr Klaus Hecker, Managing Director of the OE-A (Organic and Printed Electronics Association), who works together with Messe München to organize LOPEC. "LOPEC represents the entire value chain. It showcases new systems and printing materials as well as printed electronics components which were mere concepts just a few years ago and are now already finding their way into our everyday lives."

Norwegian company Thin Film Electronics ASA will be in Munich to showcase their printed NFC tags, which connect various products to the digital world, and even to the Cloud, thereby paving the way for the Internet of Things. The tags use near field communication (NFC) to send information to smartphones and other mobile devices.

The British Centre for Process Innovation (CPI) also works in the field of "smart packaging". CPI will present their breathalyser for diabetics at LOPEC this year. Their device is built around a printed sensor that determines blood sugar levels by analyzing the user's breath. CPI will also showcase new printing

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technologies, including a two-stage process—Inkjet Flex—that allows you to print copper structures as fine as 125 nm onto PET film.

Also attending LOPEC will be American plant manufacturers NovaCentrix and Nordson: both driving forces within the industry. NovaCentrix will be showcasing its PulseForge systems, which sinter metallic inks on paper or plastic using light rather than heat. Nordson's multi-layer slot die technology, meanwhile, is engineered to allow the application of multiple coatings—up to 0.1 micrometer thin—in one pass. Application speeds of over 900 meters per minute can be achieved, depending on the process.

Material manufacturers who will be showcasing new products at LOPEC include: Merck, who will be launching a package of printable organic semiconductor and dielectric materials; BASF, who will be presenting inks for electronic switches that can be customized and are suitable for printing and coating processes at temperatures below 100°C; and Schott, the specialist glass manufacturer. Schott's visitors will be treated to a glimpse of a sensational new product: rollable glass as a substrate material for printed electronics. This glass is 25 micrometers in thickness and, unlike currently available plastics, is thermally stable and impervious to gases and water vapor.

These, and many other new products, are set to take printed electronics to the next level. "LOPEC gives a comprehensive overview of the industry for all stakeholders. We are particularly pleased to have so many new exhibitors attending the event and to see such high levels of participation from other countries," emphasizes Falk Senger, Managing Director of Messe München. The organizers are expecting over 140 exhibitors, 30 percent of which will be exhibiting for the first time. Around half of the exhibitors will be coming from outside of Germany, with the USA, Japan, and the UK best represented. Companies will, however, also be making their way from Brazil, India, Israel, and Norway, to name a few.

**You can find further information on LOPEC at [www.lopec.com](http://www.lopec.com).**

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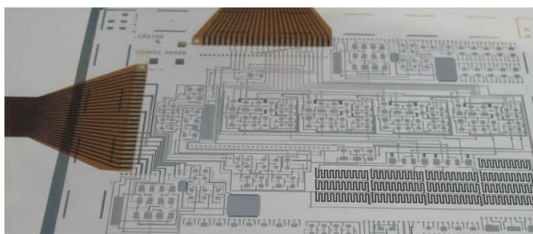
Have yourself [accredited](#) for LOPEC 2016 in advance and receive your free press pass by e-mail.



It may look like film, but it is actually glass: Schott's ultra-thin glass – a substrate material for printed electronics (source: Schott AG)



Smart labels connect products with the digital world (source: Thin Film Electronics)



These new conductive inks allow printing on complex electronic structures (source: Merck KGaA)

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### **LOPEC**

LOPEC (Large-area, Organic & Printed Electronics Convention) is the leading international event for printed electronics. The combination of an exhibition and a conference is the perfect way to depict the complex and dynamic nature of this new industry. More than 2,300 participants attended the exhibition and the conference in 2015. There were 133 exhibitors from 19 countries, and speakers from 28 countries gave 199 presentations. LOPEC is organized jointly by the OE-A (Organic and Printed Electronics Association) and Messe München GmbH. The next LOPEC takes place from April 5–7, 2016. [www.lopec.com](http://www.lopec.com)

### **Messe München**

Messe München is one of the world's leading trade-show companies. It organizes some 40 trade shows for capital and consumer goods and key high-tech industries in Munich and abroad. Each year more than 30,000 exhibitors and some two million visitors take part in events held at the Messe München trade-fair center, the ICM – Internationales Congress Center München and the MOC Veranstaltungszentrum München. In addition, Messe München organizes trade shows in China, India, Turkey, South Africa and Russia. Messe München has a global business presence with affiliates in Europe, Asia and Africa and more than 60 foreign representatives serving more than 100 countries.

### **OE-A**

The OE-A (Organic and Printed Electronics Association) was founded in December 2004 and is the leading international industry association for organic and printed electronics. The OE-A represents the entire value chain of this industry. The members are world-class global companies and institutions, ranging from R&D institutes, mechanical engineering companies and material suppliers to producers and end-users. More than 230 companies from Europe, North America, Asia and Australia are working together to promote the establishment of a competitive production infrastructure for organic and printed electronics. The OE-A is building a bridge between science, technology and application. The OE-A is a working group within VDMA. [www.oe-a.org](http://www.oe-a.org)