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Munich, March 07, 2019

## Press Release

### LOPEC 2019 in Munich, Germany

## Printed electronics: On the road to success with innovations

**In just a few weeks, LOPEC, the International Exhibition and Conference for the Printed Electronics Industry, will open its gates. From March 19 to 21, companies and research institutes from all over the world will be presenting their innovations along the entire value chain.**

Printed lithium-ion batteries and an adhesive alarm tape for vehicles: These are just two of many novelties that visitors to LOPEC 2019 can look forward to. “In keeping with the success of printed electronics, we are seeing more exhibitor registrations than ever before,” explains Barbara Ismaier, LOPEC Exhibition Director at Messe München. On more than 1,600 square meters, over [160 exhibitors](#) from 19 countries are going to present themselves.

### From new inks to electrospinning

In Munich, the US company Creative Materials is going to present a conductive ink for direct printing on textiles. Even without a protective layer, the electronics produced with it are so robust that they can withstand 100 washing and drying cycles. The INM – Leibniz Institute for New Materials in Saarbrücken, Germany, on the other hand, has developed a hybrid ink for printing circuits on paper or film. It contains both organic polymers and metallic nanoparticles.

The INM will also provide information on inkjet printing and other processes. Particularly exciting: By electrospinning, transparent, conductive nets of extremely fine fibers can be applied to glass. For the conventional entry into printed electronics, on the other hand, LOPEC exhibitor Coatema is offering compact machines that print on DIN A4 formats or by roll-to-roll processing. In addition to other plant manufacturers, companies such as Siemens, Polytec and

Press Contact  
Messe München GmbH  
Isabella Lauf  
Tel. +49 89 949-21487  
isabella.lauf@messe-muenchen.de

Press Contact OE-A  
Sophie Verstraelen  
Press & Public Relations  
Tel. +49 69 6603 1896  
sophie.verstraelen@oe-a.org  
oe-a.org

Messe München GmbH  
Messegelände  
81823 München  
Germany  
messe-muenchen.de

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M. Braun Inertgas-Systeme will be represented with plants for automation and process optimization.

### **Fit for the market**

“The high level of maturity of printed electronics is reflected in the fact that LOPEC is presenting a larger number of concrete applications every year,” emphasizes Barbara Ismaier. Varta Microbattery is going to introduce several types of printed batteries: Within the scope of the EU INN PAPER project, the company is developing zinc-carbon batteries for paper-based electronics. Printed lithium-ion batteries and rechargeable zinc air cells are also on display by Varta. Other highlights include the tape for theft protection of vehicles at the stand of Witte plusprint. It consists of a plastic fabric on the back of which electrical conducting paths are applied. When cut, it triggers an audible or visual alarm signal.

The exhibits from InnovationLab and KEX Knowledge Exchange are also of interest for the automotive industry: InnovationLab manufactures high throughput pressure sensors by printing. Integrated into car seats, they detect seat occupancy and remind the driver, for example, to fasten their seat belt. New heating concepts are in demand for e-mobility. KEX is going to present a panel heating system for the interior of electric cars based on a transparent heating foil with a fine metallic net. 16 companies were involved in the development.

“Cooperation is crucial for the breakthrough of new technologies,” stresses Barbara Ismaier. “With LOPEC, we are bringing all the players together. We are delighted that, along with companies from all over the world, so many research institutes and networks are actively participating in LOPEC.” Several Fraunhofer Institutes, the Spanish Functional Print cluster, the Dutch Holst Centre, the Finnish research center VTT, the Canadian intelliFLEX Innovation Alliance, the Innovation Center for Organic Electronics at Yamagata University in Japan and many other institutions will be represented in Munich.

### **Service**

Further information and background data can be found at [www.lopec.com](http://www.lopec.com).

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Image material is available from the [media database](#). All contributions from LOPEC TV can be found on our [webpage](#) as well as in the [media library](#). In the [download section](#), original recordings from LOPEC in broadcast quality are made available to you free of charge.

#### **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 young industry. Around 2,500 participants from 51 countries attended the event in 2018. There were 153 exhibitors from 21 countries, and 188 conference presentations from 25 countries. LOPEC is organized jointly by the OE-A (Organic and Printed Electronics Association) and Messe München GmbH. The next event takes place from March 19 to 21, 2019 at the ICM – Internationales Congress Center München in Munich, Germany. [www.lopec.com](http://www.lopec.com)

#### **Messe München**

Messe München is one of the leading exhibition organizers worldwide with more than 50 of its own trade shows for capital goods, consumer goods and new technologies. Every year, a total of over 50,000 exhibitors and around three million visitors take part in more than 200 events at the exhibition center in Munich, at the ICM – Internationales Congress Center München and the MOC Veranstaltungszentrum München as well as abroad. Together with its subsidiary companies, Messe München organizes trade shows in China, India, Brazil, Russia, Turkey, South Africa, Nigeria, Vietnam and Iran. With a network of associated companies in Europe, Asia, Africa and South America as well as around 70 representations abroad for over 100 countries, Messe München has a global presence.

#### **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. Well over 200 companies from Europe, Asia, North America, South America, Africa and Oceania 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)