

PRESS RELEASE

05 | 18

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February 21, 2018 | Page 1 / 2

A variety of designs for OLED lighting in one easy kit

The Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, a provider of research and development services in the field of organic electronics, will be presenting an OLED Lighting Design Sample Kit for the first time at LOPEC 2018 in Munich, Hall B0, Booth No. 320, March 14-15, 2018.

Up to now, OLED lighting modules have mainly been the familiar white OLED tiles for general-purpose lighting. However, automobile designers are increasingly discovering OLED technology as design elements to make their automobile brand design recognizable and unmistakable. Flexible OLED modules can be incorporated as luminous design elements in many other new and innovative fields of application.

Flexible OLEDs present designers a practically unlimited tool for creating new OLED-based luminous objects. In order to convey some of the diverse opportunities that OLEDs offer to interested designers, Fraunhofer FEP is presenting its OLED Lighting Design Sample Kit at LOPEC 2018 for the first time, in order to demonstrate the unique properties and features of OLEDs, such as their flexibility, segmentation ability, transparency, their multicolored surfaces, hybrid colors, patterns, and variable color intensities.

Jan Hesse, project manager of Sheet-to-Sheet OLED Technologies at Fraunhofer FEP, explains the opportunities for collaboration as follows: "Fraunhofer FEP offers its customers realization of customer-specific OLED modules with a wide range of features and materials for converting design ideas into luminous visual displays using OLED technology. We utilize the latest technologies and materials, and apply our extensive know-how to produce prototypes and short production runs of our customers' desired applications." Fraunhofer FEP works closely with well-known OLED manufacturers in scaling up to full serial production. Moreover, FEP also shows designers both the possibilities and what the application requirements are for a given OLED design through OLED-specific design workshops.

In addition to the aesthetic possibilities for designs using OLED technology, the OLED Design Sample Kit is also intended to illustrate the functional possibilities that OLED technology offers in medical engineering and analytics, such as integrating lighting (OLED) and sensor technology (OPD) on a single component for example, thus facilitating new applications.

The scientists and designers at the Fraunhofer FEP are looking forward to specific enquiries from industry regarding development of prototypes or short-run client-specific OLED modules for innovative designs and applications.

Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP

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05 | 18

Fraunhofer FEP at LOPEC 2018:**Exhibition booth**

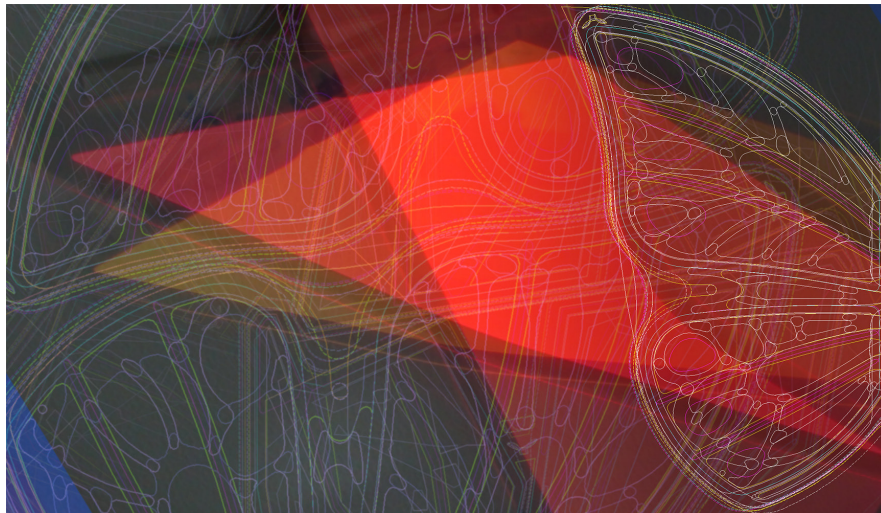
- Booth No. B0.320 (Fraunhofer FEP at joint OES Organic Electronics Saxony booth)
- Booth No. FO.1 SmartEEs (Fraunhofer FEP is technology partner of SmartEEs)

Conference presentation:

- Session: Processes I, Printed and flexible light emitting diodes, Room 14a
March 14th, 2018, 2:00 - 2:20 pm "Semi-transparent top-electrodes for flexible and transparent OLED devices fabricated roll-to-roll", Dr. Stefan Mogck

Poster:

- "Platform for sewable OLED modules", Jan Hesse
- "CMOS-based microdisplays, imagers, and sensors enhanced by OLED/OPD integration", Bernd Richter

**OLED Lighting Design Sample Kit**

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Picture in printable resolution: www.fep.fraunhofer.de/press

The **Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP** works on innovative solutions in the fields of vacuum coating, surface treatment as well as organic semiconductors. The core competences electron beam technology, sputtering and plasma-activated deposition, high-rate PECVD as well as technologies for the organic electronics and IC/system design provide a basis for these activities. Thus, Fraunhofer FEP offers a wide range of possibilities for research, development and pilot production, especially for the processing, sterilization, structuring and refining of surfaces as well as OLED microdisplays, organic and inorganic sensors, optical filters and flexible OLED lighting. Our aim is to seize the innovation potential of the electron beam, plasma technology and organic electronics for new production processes and devices and to make it available for our customers.