

## Intensivkurse zu Schlüsseltechnologien: Short Courses



Der LOPEC Kongress ermöglicht seinen Teilnehmern, sich in 90-minütigen (oder 45-minütigen) Intensivkursen Expertenwissen in unterschiedlichsten Schlüsseltechnologien der gedruckten Elektronik zu verschaffen. Dafür gibt es die Short Courses zu ausgewählten Themenschwerpunkten.

Short Courses sind Intensivkurse für Kongressteilnehmer, in denen die vielschichtigen Themenwelt der gedruckten Elektronik in kompakter Form vorgestellt wird. In 90 (oder 45) Minuten führen Vorträge in die diversen Spezialthemen ein. Danach gibt es die Möglichkeit zur Diskussion.

### Rückblick

## Highlights der LOPEC 2019

### Tatiana Zubkova

Chemnitz University of Technology (DE), Research assistant

Drying and sintering effects in functional printing with a focus on near-infrared (NIR) technology

- Drying vs sintering
- Functionality formation
- Near-Infrared (NIR) post-treatment

### Corne Rentrop

Holst Centre (NL), Project manager

Fundamentals of hybrid printed electronics and how to integrate into flexible, stretchable and 3D products

- 3D products
- Maturing hybrid PE equipment and functionalities
- Printing, assembly, post-processing, characterise

### **Dr. Yasuyuki Kusaka**

National Institute of Advanced Industrial Science and Technology (AIST) (JP)

High-resolution printing techniques

- Fundamentals of ink formulations and processes
- Opportunities and challenges
- Single-micrometer high-resolution printing

### **Prof. Jan Vanfleteren**

IMEC & Ghent University (BE), Principal Scientist

Randomly shaped electronics using industry compatible manufacturing technologies

- 3D electronics
- Smart objects
- Stretchable circuits

### **Markus Ankenbrand**

FAU Erlangen-Nürnberg, (DE), Research Associate

3D structural electronics

- Research projects and outlook
- Mechatronic integrated devices
- Processes for 3D printed electronics

### **Dr. Barbara Stadlober**

Joanneum Research (AT), Head of Research Group

The use of R2R-UV-Nanoimprinting in flexible microelectronics, microoptics, bionics and microfluidics

- Applications
- Benchmarking of R2R-UV-NIL for OLAE
- Resins, tools, simulation

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### **Short Course Chair:**

Prof. Jukka Hast, VTT (FI), Research Professor - VTT Printed Intelligence

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