

Printed Electronics Helix

Launch Event, September 21, 2023

How can innovation support the (sustainable) value chain?

» Dr. Klaus Hecker, Managing Director, OE-A

A working group within



OE-A – Global industry association for organic and printed electronics

Driven by more than **200 international member companies & institutes** from Europe, America, Asia and Africa

Primary **activities** include:

- » Working Group Meetings & Networking Events
- » Market & Technology Information
- » Advocacy
- » Demonstrators
- » LOPEC: Conference & Exhibition

OE-A members represent the **entire value chain of organic and printed electronics**:

- » Component & Material Suppliers
- » Equipment & Tool Suppliers
- » Device Manufacturers
- » Producers/System Integrators
- » End-Users
- » Universities & R&D Institutes

www.oe-a.org

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A working group within



Working Groups

- » Roadmap
- » OE-A Competition
- » Hybrid Systems
- » Sustainability
- » Encapsulation
- » Education
- » Women in PE
- » Marketing



LOPEC 2024, March 5-7

ICM Munich, Germany

The central marketplace for Flexible and Printed Electronics,
in cooperation with Messe Munich

- » 2,500+ attendees
- » 170+ international exhibitors
- » 180+ presentations

Exhibition

- » Largest industry exhibition in the field
- » Innovation showcase

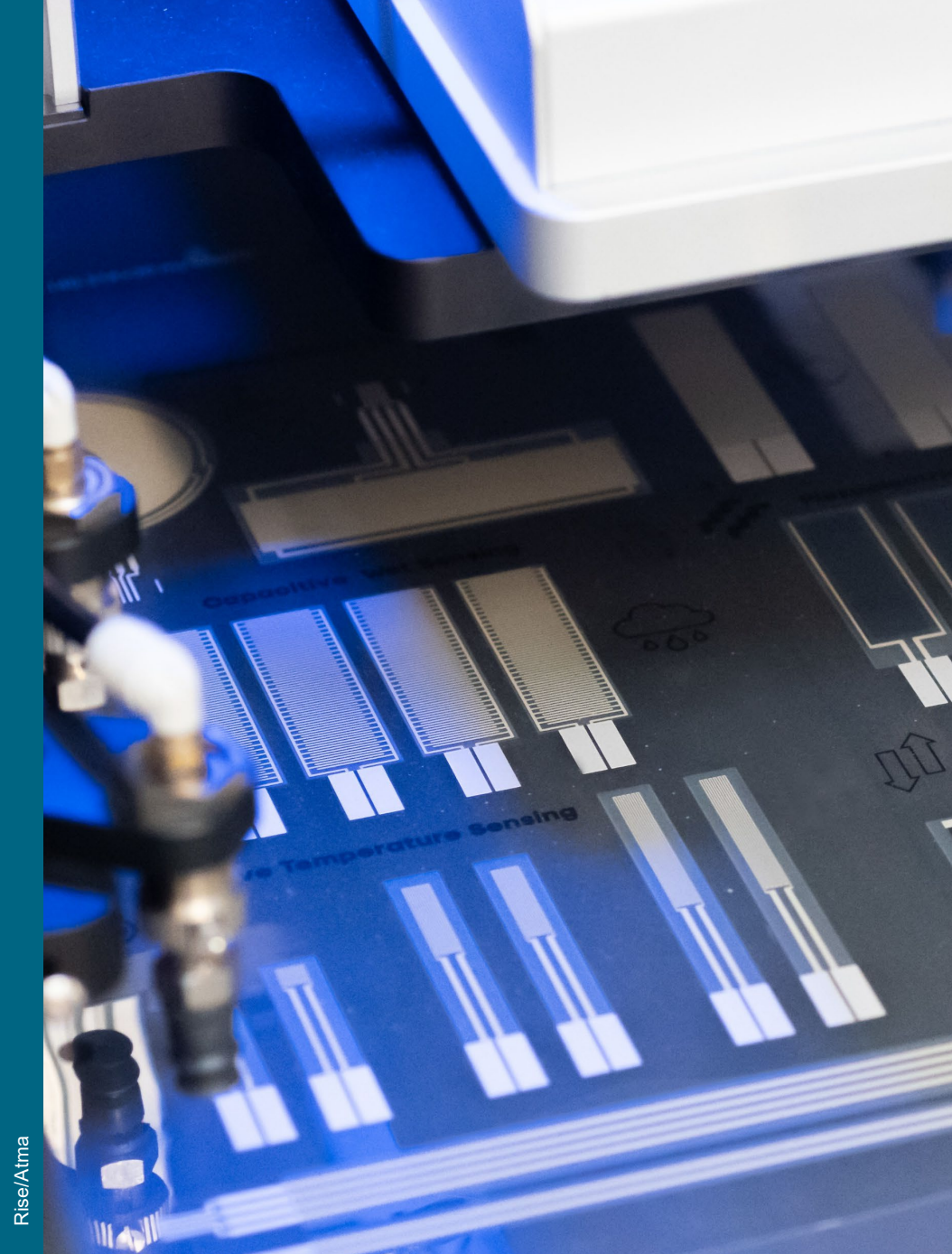
Conference

- » Business, Technical, Scientific Conference
- » Pre-conference seminars
- » Start-up Forum
- » **Call for papers: open Sept. 7-29, 2023**

10% discount for OE-A members



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Production



Production

New technological approaches in production are the basis for significantly increasing energy and resource efficiency along the value chain.

Printing, as an additive process and other production technologies:

- » Reduced energy consumption
- » Low temperature process
- » No vacuum
- » No (high class) cleanroom

Materials

Materials

- » Total freedom of design
- » Simple structure / device design
-> less material
- » No hazardous materials
- » No hazardous process materials

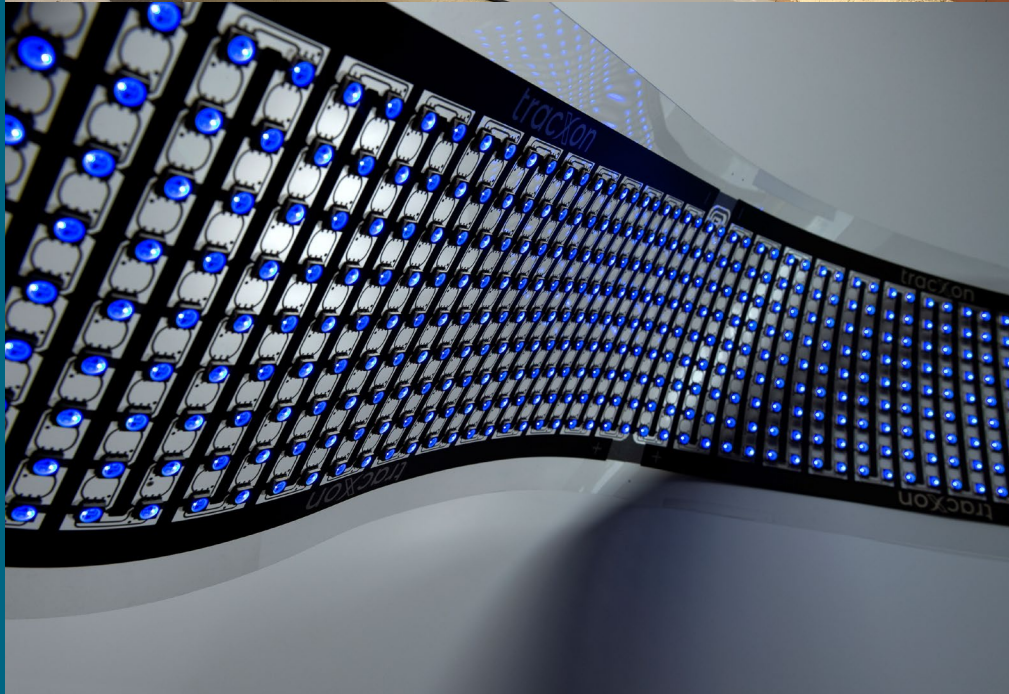


Devices and Products

Devices and Products

Reduced energy consumption during usage

- » Lightweight
- » Customized shape, size, capacity
- » Revolutionizing HMI
 - less material, less weight, increase life time
- » Energy production with short energy payback time (OPV)



Circularity / End-of Live / Recycling

Printing plus related advanced processing enable broader use of recycled or eco-friendly materials to support product lifecycle circularity.

- » No hazardous substances in PE products
- » Recyclable
 - in some cases even biodegradable or compostable
- » Printed RFID / NFC labels to track products, provide information on built in materials, „history“, to support recycling & circularity
 - e.g tires, packages
 - > Concepts for circularity in development
 - Optimized logistics and cold chains ,
 - > e.g., reduced food waste

Thank you!



Dr. Klaus Hecker

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