Presseinformation/*Press release*

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OE-A at LOPEC – Printed electronics up close

At the OE-A booth at LOPEC 2023 the projects of the "OE-A Competition 2023" prove the innovative strength and surprises with new market-ready applications of flexible, organic, and printed electronics. The new edition of the OE-A Roadmap underpins the advancing maturity of the technology.

Frankfurt, February 07, 2023 –Smart skis that "feel" the vibrations of a downhill run, a flying 3-D printed drone, a sensing glove, a biosensor test kit that helps to avoid virus spreading and some more inspiring ideas play a major role in this year's "OE-A Competition". This yearly competition run by the OE-A, part of VDMA, fosters and challenges engineers and designers to present their printed electronics innovations to the world. At LOPEC 2023, the leading international exhibition and conference of printed electronics, from February 28 to March 02 at ICM, Messe München, all projects are showcased at the OE-A booth.

Mega trends Mobility and Smart Living

"For me personally the best thing about the competition is the exciting mix between inspiring, trendsetting ideas and market ready products. This year's submissions are very much in line with the Focus Topics of LOPEC, we have great projects in the field of mobility and smart living. And we see that sustainability is even in early-stage projects a leading idea." says Dr. Klaus Hecker, Managing Director of the OE-A, an international working group within VDMA.

This year 16 contributions from international companies, research institutions and universities take part in the “OE-A Competition 2023” to present their new products, prototypes, and concepts. The submitted projects are judged by a jury of representatives from well-known international companies and institutes in three categories: "Prototypes & New Products"; "Freestyle Demonstrator"; and "Publicly Funded Project Demonstrator".

When Clever meets Smart

“The expert jury will have a hard time rating the 16 contributions and deciding on the winners of the three categories”, predicts Klaus Hecker. Here is a first snapshot of competition contributions which will be shown at the OE-A booth:

- Smooth & Sharp from Taiwan submitted a printed NFC biosensor test stripe for disease screening. The test stripe decreases the risk of virus spreading triggered through testing and transportation because it shows the result straight away. The contaminated patch can be removed safely and is easy to dispose.
- How to create an eco-friendly, ultra- thin and flexible heating foil based on a copper skin film shows Avery Dennison. This novel technology enables a more sustainable production of heating and sensor foils for the mobility and healthcare sector.
- The Smart skis submitted by Joanneum Research and partners sensors vibrations while skiing. The energy autonomous sensor transmits data about the behavior of the ski on different slopes, material stability and the suitability of the ski for the athlete.

Who is going to win?

Not only the jury will decide which project is a winner, - but all visitors are invited to cast their vote for the "Public Choice Award". Visitors choose from all contributions which demonstrator deserves the “Public Choice Award”. The voting takes place March 01st at the OE-A booth and the winner will be announced on the evening of Wednesday, March 01st during the LOPEC Get-together & Award Show. Additionally, the winner of all categories will present their demonstrators at a web seminar in April 2023.

New edition of OE-A Roadmap

More than 100 experts have contributed to the new OE-A Roadmap. The OE-A Roadmap offers end-users, developers and funding bodies alike a deep insight into the technology and applications. “Next to the inspiring demos of the competition, a visit at the OE-A booth is also worthwhile to get your copy of the newly published OE-A Roadmap. For our members is this comprehensive guide of printed electronics complimentary. For non-members we offer an executive summary right at the booth. In case you cannot make it to LOPEC, summary and whitepaper will be for download at oe-a.org right after LOPEC” adds Klaus Hecker.

Journalists can be accredited for LOPEC 2023. The LOPEC 2023 press conference including presentation of the latest OE-A Business Climate Survey will take place Wednesday, March 01st at 11:00.

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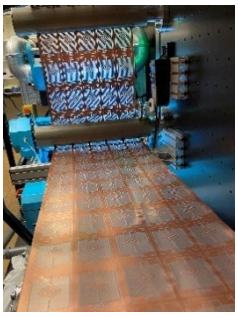
If you have any questions, please do not hesitate to contact Dr. Klaus Hecker, OE-A Managing Director, phone: +49 69 66 03-13 36, e-mail: mailto:klaus.hecker@oe-a.org

NFC Biosensor Test kit
© Smooth & Sharp, Taiwan
(Images in higher resolution:
(Image in higher resolution)



Copper Skin Film
© Avery Dennison, USA
(Image in higher resolution)

Smart Ski
© Joanneum Research Austria, Fraunhofer FEP, Varta, Germany, Tampere University, VTT Finland
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Organic and Printed Electronics Association

The OE-A (Organic and Printed Electronics Association) is the leading international industry association for flexible, organic, and printed electronics. The OE-A represents the entire value chain of this emerging industry. Our 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, and Africa are working together to promote the establishment of a competitive production infrastructure for organic and printed electronics.

The vision of the OE-A is to build a bridge between science, technology, and application. The OE-A is a working group within VDMA. More than 3,500 member companies from the machinery and equipment manufacturing industry make VDMA the largest industry association in Europe. oe-a.org

Organic and printed electronics

Organic and printed electronics stands for a revolutionary new type of electronics: they are thin, lightweight, flexible, robust, and produced at low cost. It enables new applications, including single-use devices enabling ubiquitous electronics.

LOPEC

The OE-A and Messe München are the hosts of LOPEC, the premier international exhibition and conference for the printed electronics industry. It addresses end-users, engineers, scientists, manufacturers, and investors. LOPEC 2023 will be held February 28 to March 02, 2023, at Messe München, Germany. **lopec.com**