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## Dear Readers,



LOPE-C 2009, the premier event in the field of printed electronics took place successfully in Frankfurt/Main this summer. It was PolyICs' goal to show the most recent and leading state-of-the-art in printed electronics.

Perhaps you visited us on our booth to see our applications live or try them out personally. To read more about this please have a look at our Review section.

In the last newsletter we announced to explain the Game Board Demonstrator in detail. This demonstrator was handbuilt within the frame of an OE-A project. Please read more about this in our section Applications.

Please read the section Network for news around the OE-A and about the election of a new Board of Directors.

In the sections Technology and Products you will find information on our roll-to-roll production as well as on our product lines PolyLogo® and PolyID®. At LOPE-C 2009 we showed applications that are possible with these two product lines.

**I wish you an exciting read.**

**Yours sincerely**  
**Wolfgang Mildner**  
**Managing Director PolyIC**

PolyIC is a member of:



## Review:

### LOPE-C Convention June 23-25, 2009



Record attendance at LOPE-C 2009 (Large-area, Organic & Printed Electronics Convention) in Frankfurt/Main: More than 1,000 attendees from more than 30 countries and more than 120 presentations on this three-day conference as well as 50 exhibitors.

For the first time ever, PolyIC released technical data concerning our printing process as well as the roll-to-roll production. This information was given in the talk of Dr. Fix, Head of Technology.

Visitors had the opportunity to have a look at a production roll which gained lots of recognition.

The tutorial given by Dr. Andreas Ullmann (PolyICs' Chief Technology Analyst) about "Devices in Organic / Printed RFID" was well attended.

A further talk by Dr. Wolfgang Clemens, Head of Applications, about "Printed Electronics: Market Entry with Printed RFID and Roadmap to High Volume Markets" informed the attendees about printed RFID and printed smart objects as well as about their respective markets and about the planned market entry through a roadmap concerning high-volume markets.

## Technology:

### PolyIC shows technological leadership at LOPE-C 2009



A highlight at the PolyIC exhibition stand was a roll of printed electronics from roll-to-roll production, plus information about the production data, e.g. about the typical web speed (more than 30m/min) and transistor yield (of 99%). The typical web length is about two to five kilometres.

## Products:

### Product line PolyID® at LOPE-C 2009



PolyIC also showed printed RFID tags exclusively and live in function for the first time in the history of printed electronics. These RFID tags originate from the ongoing roll-to-roll production. They will be demonstrated at the PolyIC stand, together with a corresponding reader.

On the basis of a marketing application various scenarios for the use of the product line PolyID® were shown. By means of an activator information can be made shown on a monitor. The information or pictures shown refer to the product that is held against the activator. Another example demonstrated the use of radio chips in the sector of brand protection which enable products to be checked for their authenticity. This was verified by means of an intelligent wine label.

## Products:

### Product line PolyLogo® at LOPE-C 2009



Globally unparalleled printed radio-activated displays coming from our product line PolyLogo® for printed smart objects were on show. These were integrated into interactive quizzes. Did you see next generations games at

LOPE-C? They interact via a playing card and activator with the player. A similar application involves tickets with interactive displays that was shown at LOPE-C as well.

## Applications:

### Organic and printed electronics game board



This demonstrator shows a multifunctional organic electronic game board with OLED-dice, activated by an organic integrated circuit, and electrochromic displays as action fields.

Under the coordination of PolyIC, eight partners (Mitsubishi Polyester Film, Leonhard Kurz, VARTA Microbattery, Fraunhofer Institute for Applied Polymer Research (IAP), ACREO, NTERA and COPACO) cooperated in the successful realization of this smart system, which shows the combination of different organic electronic devices and brought the first OE-A demonstrator idea of 2005 to life.

All components supplied by the cooperating partners were assembled by PolyIC. We would like to thank the OE-A Office for going the extra mile with us.

## Network:

### OE-A elects new Board of Directors



At their annual General Assembly meeting the members of the Organic Electronics Association elected a new Board of Directors. Chairman Wolfgang Mildner and Vice Chairman Andrew Hannah, were confirmed in their positions.

This meeting of the OE-A took place on June 22nd, 2009 at the VDMA in Frankfurt/Main, Germany. The new board represents the entire value chain of this emerging industry with more than 120 members and reflects the international, global reach and membership structure of the OE-A.

Additional information on the numerous projects of the OE-A, such as the Roadmap, education and training programs, standardization, Demonstrator projects and public relations, can be found in the new OE-A brochure; it also includes an insert with a set of functional organic electronic components. PolyIC also contributed to this so-called Giveaway-Demonstrator with a printed tag.

More information on OE-A can be found at [www.oe-a.org](http://www.oe-a.org)

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