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March 31, 2009

Dear Readers,



For the first time in this economically difficult year 2009, I am writing to you today with news about PolyIC.

In the Technology section of this issue, we will be informing you about the latest progress in the CMOS area and the results that we presented for the first time in San Francisco in February 2009.

Find out more about flexible, high-resolution conductive structures and their applications that we will be presenting to you for the first time at the LOPE-C in June of this year. This takes us directly to the Preview section in which we take the opportunity to introduce the conferences 'LOPE-C 2009' and 'Printed RFID 2009' to you. In our section In our section Review you are given a brief assessment of the 'hunkeler innovationdays 2009' and of the 'CeBIT 2009', which was extremely successful for PolyIC despite declining exhibitor numbers this year.

I wish you an exciting read.

Yours

Wolfgang Mildner
Managing Director
PolyIC GmbH & Co. KG

PolyIC is a member of:



Research & Technology:

First 4-bit CMOS transponder presented



At the internationally renowned conference on semiconductor circuits (ISSCC 2009), PolyIC presented the world's first laboratory prototype of a 4-bit CMOS transponder in San Francisco at the beginning of February (ISSCC, Dig. Tech Papers, p. 208,

Feb. 2009). The centerpiece of this prototype is an organic CMOS circuit consisting of a total of 168 p- and n-type transistors in which the unique 4-bit information of the transponder is stored. Together with an organic rectifier and modulator, a transponder was developed out of this circuit; its 4-bit signal could be scanned with an RFID scanning device at 13.56 MHz. PolyIC will be presenting further details on this during a presentation at the LOPE-C conference in June 2009.

Applications:

Flexible, high-resolution conductive structures

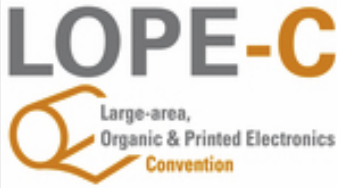


PolyIC produces flexible, high-resolution conductive structures on film as the basis for other PolyIC products. These have conductive structures in the micrometer range and have a superb surface smoothness. The conductive structures based on thin,

flexible and transparent polyester substrate are available in large quantities on rolls. They can be used for products of printed electronics as well as for many other applications.

Preview:

LOPE-C Conference: June 23-25, 2009



Organic and printed electronics: OE-A invites participation in a summit meeting

The Organic Electronics Association (OE-A) is inviting participation in a global premiere in the Congress Center of Frankfurt am Main Trade Fair between June 23 and 25 of this year. At the first **Large-area, Organic & Printed Electronics Convention (LOPE-C)**, experts from business and science will be meeting up for a lively exchange on developments and innovations from the area of organic and printed electronics.

In the exhibition which runs parallel to the conference, companies and research institutes will be presenting their products and solutions for users from the areas of energy generation, consumer goods and packaging industry, logistics and medical technology. Organic electronics can, for instance, be used in flexible solar cells, as printable Radio Frequency Identification (RFID) tags, for rollable displays, as energy-efficient lighting or as disposable diagnosis devices.

established itself as one of the largest events in the RFID sector.

Review:

hunkeler innovationdays 2009



This years **hunkeler innovationdays** were held at the trade fair grounds in Lucerne (CH) between February 16 and 19. Despite the current difficult economic climate, the trade fair was attended by more than 4,500 visitors from all over the world.

With more than 60 exhibitors, the trade public was able to inform itself about the latest developments and solutions from the area of modern paper processing. For instance, PolyIC gave visitors a live demonstration of an RF application that makes it possible to scan RF tags that have been converted into cards, using a specially developed RF reader.

Preview:

Printed Electronics Europe 2009



You can meet PolyIC at the **Printed Electronics Europe** between April 7 and 8, 2009 in Dresden. Last year, PolyIC won the

Best New Product Development Award at this conference. We therefore look forward to your visit to our stand or to the presentation by Dr Clemens (Head of Applications) on the topic of Printed RFID and More for New Applications and to a similarly successful event as last years.

Review:

CeBIT 2009



CeBIT opened its doors this year between March 3 and March 8. This was already the fourth time that PolyIC was represented at the worlds leading specialist trade fair for all areas of

information and communication technology in Hanover, Germany.

In the Auto-ID / RFID Solutions Park, PolyIC showed the possibilities of RFID applications in the area of event ticketing with the **PRISMA Gate Reader**. Cross-sector solution proposals on the topic of brand protection were also shown and a diversity of developments and samples exhibited from the area of printed electronics and the respective scanning devices.

In his lecture Use of printed electronics for new, low-cost and high-volume RFID applications, Dr Wolfgang Clemens addressed the status and the development of this innovative technology platform in detail.

Preview:

Printed RFID 2009



The **Printed RFID Conference** will be taking place on April 27, 2009 in Walt Disney World in Orlando, Fla.

Wolfgang Mildner, Managing Director of PolyIC, will be taking participants

through the program as its chairman and will also be holding presentations himself on the development of 'Printed Smart Objects' and 'Printed RFID'. The image of the conference will be defined by the specialist presentations given by representatives from leading development companies and research institutes.

The one-day Printed RFID Conference will be accompanied from April 27-29, 2009 by the RFID JOURNAL LIVE! 2009, the trade fair and specialist exhibition of the RFID Journal. This event is being held for the seventh time and has now

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