

November 6<sup>th</sup> and 7<sup>th</sup>, 2012
**FRAUNHOFER IMS WORKSHOP**  
**HIGH TEMPERATURE**  
**ELECTRONICS**
**Hotel Booking**

Hotel rooms have been reserved at the Plaza Hotel.  
 Please contact the hotel directly.

Date: November 6th to 7th  
 Keyword: »Fraunhofer/HighTemperature«  
 Price € 98,00 (breakfast included)

Address:  
 Hotel Plaza OHG  
 Düsseldorfer Str. 54  
 47051 Duisburg

Tel.: +49 203 / 28 22 0  
 Fax: +49 203 / 28 22 300

www.hotel-plaza.de  
 info@hotel-plaza.de

**How to find us**

<http://www.inhaus.fraunhofer.de/en/about-us/Directions.html>

Parking opportunities can be found on the nearby university car park in Carl-Benz-Strasse.

 .....  
 Name / First Name / Title

 .....  
 Affiliation

 .....  
 Address

 .....  
 Phone / Fax

 .....  
 E-Mail

 .....  
 Signature

Please send this completed registration form by October 26<sup>th</sup>, 2012, at the latest. Fax: +49 203 3783-153 or Email: [susanne.kittner@ims.fraunhofer.de](mailto:susanne.kittner@ims.fraunhofer.de)

**Please note**

Registrations are subject to space availability and will be confirmed only after fee payment!

**Workshop Fee**

350 € (Registration before October 5<sup>th</sup>, 2012)  
 450 € (Registration before October 26<sup>th</sup>, 2012)  
 The workshop fee includes a USB memory stick (with presentations), lunches, and the evening event on November 6<sup>th</sup>, 2012.

**Cancellations**

Half of the payment will be reimbursed for cancellations received before October 26<sup>th</sup>, 2012. Later cancellations will not be reimbursed!

**Terms of Payment**

After reception of the registration form, an invoice will be sent to the participants and the fee has to be transferred under reference of the invoice number until October 31<sup>st</sup>, 2012, at the latest. Payment by credit card is not possible.

**Contact at Fraunhofer IMS:**

Susanne Kittner  
 Phone +49 203 / 3783-170  
 Fax +49 203 / 3783-153  
[susanne.kittner@ims.fraunhofer.de](mailto:susanne.kittner@ims.fraunhofer.de)  
[www.ims.fraunhofer.de](http://www.ims.fraunhofer.de)

**Location:**

Fraunhofer-inHaus-Center  
 Forsthausweg 1  
 D-47057 Duisburg  
 Phone +49 203 / 713967-0  
[www.inhaus.fraunhofer.de](http://www.inhaus.fraunhofer.de)

For further information see:

<http://www.ims.fraunhofer.de/en/veranstaltungen.html>



**Objectives and Scope**

High temperature electronics is a continuously growing market demanding for new technologies and concepts. Fraunhofer IMS hosts a workshop on HT electronics to provide a forum for industry and academia in this field. Follow interesting presentations on applications, circuit and system design, technologies and materials for HT applications and get in touch with users and technology providers.

**Workshop Venue**

The workshop will be held at the Fraunhofer-inHaus-Center in Duisburg, which is located near the Fraunhofer IMS.

**Organizing Committee**

Prof. Dr. Rainer Kokozinski, Holger Kappert, Dr. Uwe Paschen, René Lerch and Norbert Kordas  
Assistance: Sigrid van Kempen and Susanne Kittner

**Miscellaneous**

During the breaks there will be tabletop exhibits. Furthermore you will have the opportunity to participate in a guided tour through the Fraunhofer IMS wafer fab as well as the labs of the inHaus-Center at the end of each day. A reception will take place at the Fraunhofer-inHaus-Center in the evening of November 6<sup>th</sup>.

**TUESDAY NOVEMBER 6<sup>th</sup>, 2012**

**10:00-10:15**      **Welcome**  
Prof. Dr. Anton Grabmaier, Fraunhofer IMS

**APPLICATIONS**

**10:15-11:00**      **Sensor applications**  
Prof. Dr. Holger Fritze, TU Clausthal

**11:00-11:45**      **High temperature applications for More Electrical Aircrafts: constraints, challenges and solutions**  
Dr. Olivier Crepel, EADS  
Régis Meuret, Hispano-Suiza

**11:45-12:30**      **RFID tags in high temperature applications**  
Oliver Puetz-Gerbig, Balluff GmbH

**12:30-13:30**      **Lunch**

**SEMICONDUCTORS**

**13:30-14:15**      **Power semiconductors at extended temperature, an overview**  
Dr. Peter Friedrichs, Infineon Technologies AG

**14:15-15:00**      **SiC integrated circuits**  
David Clark, Raytheon UK

**15:00-15:45**      **High temperature SOI technology**  
Dr. Uwe Paschen, Fraunhofer IMS

**15:45-16:15**      **Break**

**16:15-17:00**      **High temperature ICs in SOI CMOS technology**  
Gonzalo Picun, X-REL Semiconductor SAS  
**as of 17:00**      **Visit of IMS wafer fab and inHaus-Center**  
**18:30**              **Reception at the inHaus-Center**

**WEDNESDAY NOVEMBER 7<sup>th</sup>, 2012**

**PASSIVES**

**9:00-09:45**      **Silicon capacitors with extremely high stability and reliability ideal for high temperature applications**  
Catherine Bunel, IPDiA

**9:45-10:30**      **High temperature LTCC magnetic transformers and inductors**  
Kai-Lars Riemenschneider, wts // electronic components GmbH for NASCENTechnology Manufacturing, INC.

**10:30-11:00**      **Break**

**CERAMIC BOARDS**

**11:00-11:45**      **LTCC for harsh environment applications**  
Thomas Bartnitzek, Micro-Hybrid Electronic GmbH

**11:45-12:30**      **Ceramic circuit boards with extended functions**  
Dr. Richard Matz, Siemens AG  
**12:30-13:30**      **Lunch**

**PRINTED CIRCUIT BOARDS & MATERIALS**

**13:30-14:15**      **Cooling electronics with integrated heat carrier channels**  
Tobias Krühn, Leibniz Universität Hannover

**14:15-15:00**      **Base materials for high temperature printed circuit boards**  
Dr. Anna Exarchos, Isola GmbH

**15:00-15.30**      **Break**

**15:30-16:15**      **Contact materials at elevated temperatures**  
Jörg Trodler, Heraeus Materials Technology GmbH & Co. KG

**RELIABILITY**

**16:15-17:00**      **Reliability assessment for system integration of high temperature electronics**  
Dr. Olaf Wittler, Fraunhofer IZM

**as of 17:00**      **Visit of IMS wafer fab and inHaus-Center**