

November 18th and 19th, 2014

FRAUNHOFER IMS WORKSHOP HIGH TEMPERATURE ELECTRONICS

Name / First Name / Title

Affiliation

Address

Phone / Fax

E-Mail

Signature

Please send this completed registration form: either as scan to susanne.kittner@ims.fraunhofer.de or by fax to +49 203 3783-153 until November 7th, 2014, at the latest.

Hotel Booking

Hotel rooms have been reserved at the Plaza Hotel. Please contact the hotel directly.
www.hotel-plaza.de | info@hotel-plaza.de

Workshop Fee

- 450€ (Registration before October 17th, 2014)
- 550€ (Registration before November 7th, 2014)

The workshop fee includes lunches on both days and dinner on November 18th, 2014. All participants will receive an USB memory stick with all presentations.

Cancellations

Half of the payment will be reimbursed for cancellations received before November 7th, 2014. 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 November 14th, 2014, at the latest. Payment by credit card is not possible.

Contact at Fraunhofer IMS:

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Location:

Fraunhofer-inHaus-Center
 Forsthausweg 1
 47057 Duisburg
 Phone +49 203 / 713967-0
www.inhaus.fraunhofer.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.



Objectives and Scope

High temperature electronics is a continuously growing market in constant need of 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

Holger Kappert, Prof. Dr. Rainer Kokozinski, Dr. Uwe Paschen
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 dinner will take place in the evening of November 18th, 2014. Further information will be given during the workshop.

	10:00	Welcome <i>Prof. Dr. Anton Grabmaier, Fraunhofer IMS</i>
APPLICATIONS	10:15	Highly Reliable Electronics for Harsh Environments: Requirements and Application in the Oil & Gas Industry <i>Dr. Rüdiger Hild, Baker Hughes INTEQ GmbH</i>
	10:45	High Temperature Sensor Conditioning and Processing in Aerospace Applications <i>Steve Riches, GE Aviation Systems, Newmarket</i>
	11:15	High Temperature Hall Sensors <i>Magnus Alsered, Asensor Technology AB</i>
SENSORS	12:00	Lunch
	13:00	Development of Pressure Sensors for High Temperature Applications <i>Dr. Ronald Eberl, Siegert Thinfilm Technology GmbH</i>
SEMICONDUCTORS	13:30	Designing for Harsh Environment <i>Ramesh Khanna, Texas Instruments</i>
	14:00	High Temperature Semiconductors for Power Conversion Applications <i>Pierre Delatte, Cissoïd</i>
	14:30	Break
	15:00	Further Needs in High-Temperature Power Driving Applications: Closing the Loop <i>Gonzalo Picun, X-REL Semiconductor</i>
	15:30	High Temperature Silicon Carbide Junction Transistors and Rectifiers <i>Ranbir Singh, GeneSiC Semiconductor Inc.</i>
	16:00	GaN Semiconductors at Elevated Temperatures <i>Dr. Rüdiger Quay, Fraunhofer IAF</i>
	16:30	Visit of IMS wafer fab and inHaus-Center
	18:00	Transfer to dinner starting from inHaus-Center

SEMICONDUCTORS	9:00	The Positive Effects of Integration on High Temperature Electronics <i>Shane Rose, Quartzdyne, Inc.</i>
	9:30	High Temperature SOI CMOS Technology Platform for Applications up to 250°C <i>Holger Kappert, Fraunhofer IMS François Ayel, CEA Leti</i>
	10:15	Break
PASSIVES	11:00	High Temperature LTCC Magnetic Transformers and Inductors <i>James Galipeau, NASCENTechnology Manufacturing Inc.</i>
	11:30	Setting New Benchmarks: Attributes of High Temperature Oscillators for Clock Generation and Temperature Sensing <i>Kouros Sariri, Frequency Management International Inc.</i>
CIRCUIT BOARDS & PACKAGING	12:00	The Challenges of Designing Non-Ceramic Packaging for 225°C <i>Piers Tremlett, Microsemi</i>
	12:30	Lunch
	13:30	Robust Electronics Based on High Temperature Organic Circuit Boards I <i>Christiane Frueh, Robert Bosch GmbH</i>
	14:00	Robust Electronics Based on High Temperature Organic Circuit Boards II <i>Markus Ochs, Continental Automotive GmbH</i>
	14:30	High Temperature Flex PCBs <i>Koen Hollevoet, Rogers BVBA</i>
	15:00	Visit of IMS wafer fab and inHaus-Center