

SYMPOSIUM „MAGNETORESISTIVE SENSORS AND MAGNETIC SYSTEMS“

The market for robust, precise and miniaturized sensors is steadily increasing. As a result magnetoresistive (MR) sensor technology is being used in a growing number of applications and continues to be the subject of intense research.

The MR-Symposium, which takes place in 2011 for the 11th time, has established itself as the leading international platform for presenting the latest technological developments and innovative applications in the field of MR technology and magnetic systems. Both potential users, wishing to implement this unique technology in new products, and researchers engaged in this dynamic field, are provided with information about the latest technical advances as well as descriptions of new applications from leading edge users.

OBJECTIVE OF THE SYMPOSIUM

A hand-picked selection of experts from around the world will provide first-hand information on the latest research results and newest applications of magnetoresistive technology. The presentations cover fundamental technological advances, e. g. in TMR sensor technology, as well as a wide range of application examples for MR sensors, including robotics, aviation and space, bioanalytical equipment, material testing, industrial automation and automotive applications. In addition to this there are presentations covering related subjects, such as a recent market study for MR sensors, innovative packaging of sensor components and specifications of trigger magnets for linear and rotary sensors.

11TH MR-SYMPOSIUM – REGISTRATION

HOW TO REGISTER

Please register by post, fax or internet. Your registration is requested by **18th March 2011**. If you cancel your participation after **15th March 2011** a refund of the participation fee is not possible.

Via post | Sensitec GmbH
Ellen Slatter
Georg-Ohm-Str. 11
35633 Lahnau
Germany

Via telefax | to +49 (0) 6441-9788-17
For fax reply form, see rear page of the invitation letter.

Via internet | Online registration via www.sensitec.com

Fee | With early bird discount: **Euro 490,-** plus VAT
After 1st March 2011: **Euro 550,-** plus VAT

The fee includes lunch and refreshments on both days, dinner incl. special program, visit to the Wetzlar Cathedral, and conference transcript. The invoice will be issued after receipt of registration.

YOUR CONTACT

Organisation | Ellen Slatter, +49-6441-97 88-16
ellen.slatter@sensitec.com

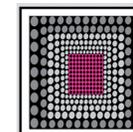
Technical matters | Dr. Joachim Hölzl, +49-6441-97 88-46
joachim.hoelzl@sensitec.com

Location | Stadthalle Wetzlar Kongress- und Kultur-Zentrum, Brühlsbachstr. 2b, 35578 Wetzlar
(for route description, please refer to <http://www.sensitec.com>)

Hotel | Please make your own hotel reservation. The following hotels provide a limited contingent of rooms with special rates (reference: MR-Symposium Sensitec):
Hotel Wetzlarer Hof
+49 (0)6441-908-0 (till 24th February 2011)
Hotel Mercure Wetzlar
+49 (0)6441-417-0 (till 14th February 2011)
Hotel Blankenfeld
+49 (0)6441-787-0 (till 1st March 2011)

Special program | On 29th March 2011 we invite you to take part in a very interesting tour through the Wetzlar Cathedral. As this is an option, please indicate your participation accordingly when registering.

11th Symposium
**Magnetoresistive Sensors
and Magnetic Systems**
29th and 30th March 2011 in Wetzlar



11TH SYMPOSIUM Magnetoresistive Sensors and Magnetic Systems

GROUP OF PARTICIPANTS

The Symposium is addressed to technical experts and managers in the automotive, industrial automation, medical technology, materials testing and consumer sectors as well as other industries, who wish to enhance their knowledge with MR technology and magnetic systems.

PROGRAM

29th March 2011

Time	Name	Institution	Title
10.00 - 10.05	Dr. Rolf Slatter	Sensitec GmbH, Lahnau	Welcome and Introduction
10.05 - 10.10	Lord Mayor Wolfram Dette	City of Wetzlar	
10.10 - 10.20	Prof. Peter Grünberg/ Prof. Albert Fert	Forschungszentrum Jülich/ Unité Mixte de Physique CNRS/ Thales, Palaiseau	
10.20 - 10.50	Dr. Stuart S. P. Parkin	IBM, San José	
10.50 - 11.20	Prof. Claudia Felser	University of Mainz	Multifunctional Heusler Components for Spintronic Applications
11.20 - 11.50	Prof. Michel Hehn	University of Nancy	TMR Sensors and Advanced Applications
11.50 - 12.20	Prof. Ed Nowak	University of Delaware, Newark	Overview of Noise and its Impact on the Performance of Modern Magnetoresistive Sensors
12.20 - 13.15	Lunch		

29th March 2011

Time	Name	Institution	Title
13.15 - 13.45	Christophe Duret	NTN-SNR, Anancy	TMR: a new frontier for magnetic sensing
13.45 - 14.15	Andreas Nebeling	ELMOS Semiconductor AG, Dortmund	Architecture of a new Integrated AMR Current Sensor (IACS) System for a Wide Range of Applications
14.15 - 14.45	Peter Slama	Infineon Technologies Austria AG, Villach	Speed and Angle Sensors for Automotive Powertrain Applications based on Integrated GMR technology
14.45 - 15.15	Dr. Michael Kaack	Salzgitter Mannesmann Forschung GmbH, Duisburg	Application of GMR Sensors for the Industrial Inspection of Seamless Steel Pipes
15.15 - 15.45	Coffee Break		
15.45 - 16.15	Prof. Christophe Dolabdjian	University of Caen	From magnetic sensors to applications, GREYC magnetic sensor R&D exemplified by Improved Giant MagnetoResistance Magnetometer (IGMRM)
16.15 - 16.45	Dr. Ingolf Schäfer	Harmonic Drive AG, Limburg	Aviation Sensor Requirements: Do They Fit to MR Technology?
16.45 - 17.15	Dr. Martin Kuschel	Kuka Roboter GmbH, Augsburg	Applications of MR-Sensor-Technology in Lightweight Robotics
ca. 17.30	Visit of the Wetzlar Cathedral & Conference Dinner		

30th March 2011

Time	Name	Institution	Title
8.30 - 9.00	Dr. Richard Dixon	iSuppli Deutschland GmbH, Munich	Opportunities and Markets for Silicon Magnetoresistive Magnetic Sensors
9.00 - 9.30	Dr. Frédéric Nguyen Van Dau	Unité Mixte de Physique CNRS/ Thales, Palaiseau	Magnetoresistive Sensors for Space Instrumentation Applications
9.30 - 10.00	Prof. Andreas König	University of Kaiserslautern	A System for Localization of Wireless Sensor Nodes in Industrial Applications Based on Sequentially Emitted Magnetic Fields Sensed by Tri-axial AMR Sensors
10.00 - 10.30	Coffee Break		
10.30 - 11.00	Christian Bur, Eliseo Pignanelli	University of Saarland, Saarbrücken	Music Glove – A Novel, Versatile Human Interface Device for Hand- and Finger Movement Detection Based on Accelerometers and MR-Sensors
11.00 - 11.30	Marcus Meyer	Robert Bosch GmbH, Buhl	Chances of XMR-Sensors in Automotive Applications
11.30 - 12.00	Dr. Hendryk Richert	Innovent Technologieentwicklung Jena e. V., Jena	Magnetic Field Sensing for Fast Motion Tracking and Robotic Navigation with Ambient Magnetic Fields

30th March 2011

Time	Name	Institution	Title
12.00 - 12.30	Prof. Paulo Freitas	INESC Microsistemas e Nanotecnologias, Lisboa	Magnetoresistive Sensors for Biological and Biomedical Applications
12.30 - 13.30	Lunch		
13.30 - 14.00	Dr. Klaus-Dieter Lang	Fraunhofer IZM, Berlin	Assembly and Packaging of Smart Sensor Systems
14.00 - 14.30	Svenja Raukopf	Sensitec GmbH, Lahnau	Smart and Tiny Packages for MR Sensors
14.30 - 15.00	Dr. Martin Grönefeld	Magnetfabrik Bonn GmbH, Bonn	Field Modelling versus Magnetic Measurements and Specifications of Trigger Magnets for Linear or Rotary Sensors
15.00 - 15.15	Coffee Break		
15.15 - 15.45	Dr. Rolf Slatter	Sensitec GmbH, Lahnau	Dynamic Position Measurement in High-speed Applications using MR-Sensors
15.45 - 16.15	Axel Bartos	MEAS Deutschland GmbH, Dortmund	Magnetic Nanoparticles for Sensor Applications
16.15 - 16.45	Dr. Marco Doms	Sensitec GmbH, Mainz	High Volume MR-Sensor Fabrication Requirements on Chip Design, Process Development and Quality Assurance