

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 2015 for the 13th 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.

FOCUS 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, aerospace, biosensors, medical equipment, non-destructive testing, industrial automation and electromobility. In addition to this there are presentations describing the latest results from EU- and BMBF-funded R & D projects in this exciting field.

13TH MR-SYMPOSIUM – REGISTRATION

HOW TO REGISTER

Please register by post, fax or internet. Your registration is requested by **20th February 2015**. If you cancel your participation after **24th February 2015** a refund of the fee is not possible.

Via post Sensitec GmbH
Ellen Slatter
Georg-Ohm-Straße 11
35633 Lahnau
Germany

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

Via internet Online registration via
www.mr-symposium.com

Fee With early bird discount: **Euro 490,-** plus VAT
After 6th February 2015: **Euro 550,-** plus VAT

On receipt of registration you will get an confirmation email. The invoice will be sent by post to your postal address. Please note that we cannot accept payment by credit card at the event itself. So please ensure that payment is made in advance.

Important information The fee includes conference transcript, lunch and refreshments on both days as well as dinner incl. special programme. The invoice for advance payment will be issued after receipt of registration. Please note that during the event photographs or video material will be created which might be used for further publications.

YOUR CONTACT

Organisation Ellen Slatter, +49-6441-97 88-16
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Location Stadthalle Wetzlar
Kongress- und Kultur-Zentrum
Brühlsbachstraße 2b
35578 Wetzlar (for route description, please refer to <http://www.mr-symposium.com>)

Hotel Please make your own hotel reservation. The following hotels provide a limited contingent of rooms (reference: MR-Symposium Sensitec):

Hotel Wetzlarer Hof
+49 (0)6441-908-0 (until 16th February 2015)
Hotel Bürgerhof
+49 (0)6441-903-0 (until 31st January 2015)
Michel Hotel Wetzlar
+49 (0)6441-417-0 (until 2nd February 2015)

Dinner and special programme On 3rd March 2015 we invite you to join us for dinner including special evening programme. As this is an option, please indicate your participation on the registration form accordingly when registering.

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(www.innomag.org)

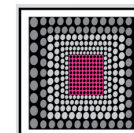


13th Symposium

**Magnetoresistive Sensors
and Magnetic Systems**

3rd and 4th March 2015 in Wetzlar

**13th MR Symposium
Wetzlar 2015**



WHO SHOULD ATTEND

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 are involved in the design, fabrication, testing, qualification and research of MR technology and magnetic systems and who wish to enhance their knowledge.

PROGRAMME

3rd March 2015

Time	Name	Institution	Title
10.00 - 10.15	Dr. Rolf Slatter	Sensitec GmbH, Lahnau	Welcome and Introduction
10.15 - 10.45	Dr. Britta Leven	University of Kaiserslautern	Future potential of spintronics for sensor applications
10.45 - 11.15	Prof. Dr. Uwe Hartmann	University of Saarbrücken	Surveillance and safety applications of magnetic field sensors
11.15 - 11.45	Prof. Dr. Oliver Gutfleisch	Technical University of Darmstadt	Novel magnetic materials for motor, actuator and sensor applications
11.45 - 12.15	Dr. Stefan Rehling	Böllhoff Automation GmbH, Bielefeld	Fast process control for robotic high speed joining in automotive body construction
12.15 - 13.15	Lunch		

3rd March 2015

Time	Name	Institution	Title
13.15 - 13.45	Dr. Jeffrey A. von Arx	Biotronic Inc., Lake Oswego	Applications for MR sensors in implantable medical devices
13.45 - 14.15	Dr. Vinzenz Kirste	Orgentec Diagnostika GmbH, Mainz	Detecting an analyte and determining the concentration of an analyte using magnetizable beads
14.15 - 14.45	Dr. Philip W. T. Pong	University of Hong Kong	Application of MR sensors in biodetection and smart grid
14.45 - 15.15	Prof. Dr. Arno Ehresmann	University of Kassel	Manipulation of supermagnetic beads for biosensing applications
15.15 - 15.45	Coffee Break		
15.45 - 16.15	Dipl.-Ing. Rahel Kruppe	University of Hanover	Development of an ultra-thin, three-dimensional magnetic field sensor
16.15 - 16.45	M. Sc. Rocco Holzhey	Innovent e. V., Technology Development Jena	AMR based three-dimensional particle tracking
16.45 - 17.15	M. Sc. Laurent Coulot	Melexis Technologies S.A., Bevaix	New generation of Hall-effect based current sensor: evolution from core-based to integrated
19.30	Conference dinner and evening show in town hall. Please indicate your participation on the registration form.		

4th March 2015

Time	Name	Institution	Title
8.30 - 9.00	Dr. Rolf Allenspach	IBM Zurich	Toward nanomagnetic devices
9.00 - 9.30	Dr. Olaf Ueberschär	Fraunhofer ENAS, Chemnitz	Innovative 2D spin valve sensors in monolithic integration for high-sensitivity compass applications
9.30 - 10.00	Dipl.-Ing. Peter Landsmann	Technical University of Munich	Rotor position estimation based on current oversampling
10.00 - 10.30	Coffee Break		
10.30 - 11.00	Dipl.-Ing. Benoit Goffin	Thales Alenia Space, Charleroi	Technical considerations on the packaging of hermetic AMR current sensors used in power conditioning for space applications
11.00 - 11.30	Dr. Folkert Kassen	ITK Dr. Kassen GmbH, Lahnau	Absolute position measuring with AMR sensors shown on a high-precision microscope stage
11.30 - 12.00	Dipl.-Ing. Lars Holland	Technical University of Darmstadt	Measuring of shaft displacements of an air bearing motor spindle with GMR sensors
12.00 - 12.30	Dipl.-Ing. Wolfgang Rieder	Festo AG & Co. KG, Denkendorf	Amorphous ferromagnetic materials for high volume sensor applications
12.30 - 13.30	Lunch		

4th March 2015

Time	Name	Institution	Title
13.30 - 14.00	B. Sc. David T. Robinson	Admotec Precision LLC, Lebanon, NH	Magnetic energy-harvesting absolute multiturn encoders
14.00 - 14.30	M. Sc. Stefan Nord	Volvo Group Trucks, Advanced Technology Research Group AB, Göteborg	Integration of MR current sensors in to the COSIVU Smart Drive System
14.30 - 15.00	Dr. Gorazd Gotovac	Elaphe Propulsion Technologies Ltd., Ljubljana	Comparison of different position sensors for the use in in-wheel motors
15.00 - 15.15	Coffee Break		
15.15 - 15.45	M. Sc. Belén Ribes Sáez	Tecnatom S. A., Madrid	Results of MR based ET probes for buried flaw detection over different metallic materials
15.45 - 16.15	Dr. Fabian Lofink	Fraunhofer ISIT, Itzehoe	Highly sensitive MEMS magnetic field sensor based on magnetoelectric composites
16.15 - 16.45	Dr. Johannes Paul	Sensitec GmbH, Mainz	New generation of TMR sensors
16.45 - 17.00	Dr. Rolf Slatter	Sensitec GmbH, Lahnau	Outlook and closing remarks