

14th Symposium „Magnetoresistive Sensors and Magnetic Systems“

It is a very exciting time to work in the field of „magnetism“ and particularly with respect to magnetic sensors. After „mechanisation“ and „informatisation“ experts are predicting a third technological wave based on „sensorisation“. Be it Internet of Things, Cyber-Physical Systems or Industry 4.0, all of them rely on a dramatic increase in the application of sensors. Magnetic sensors play an especially important role here, be it for the measurement of movement, orientation, electrical current or magnetic fields. Completely new applications are emerging. In order to fulfil these requirements a close cooperation between science and industry is necessary. The MR-Symposium provides the ideal platform for an update regarding the latest developments. Register – to be up to date.

Focus of the Symposium

The symposium serves as a forum for the exchange of innovative ideas and practical experience with magnetoresistive technology among experts from research institutes as well as practitioners from a variety of different application areas including the automotive industry, industrial automation, robotics, aerospace, NDT or the bio-analytical sector. The presentations cover also fundamental technological advances, e. g. in TMR sensor technology.

REGISTRATION

HOW TO REGISTER

Please register by post, fax or internet. Your registration is requested **by 10th March 2017**. If you cancel your participation after 14th March 2017 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 6441 9788-17
For fax reply form, please refer to the rear page of the invitation letter.

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

Fee With early bird discount: Euro 550 plus VAT
After 20th February 2017: Euro 620 plus VAT
Student fee: Euro 250 plus VAT

On receipt of registration you will get a confirmation by mail. 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 proceedings, 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

Sensitec GmbH is organizer of the MR-Symposium.
www.sensitec.com

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
Brühlsbachstraße 2b
35578 Wetzlar (for route description, please refer to <http://www.xmr-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 6441 908-0 (until 20th February 2017)

Hotel Bürgerhof
+49 6441 903-0 (until 27th February 2017)

Michel Hotel Wetzlar
+49 6441 417-0 (until 10th February 2017)

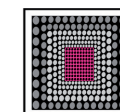
Dinner and special programme On 21st March 2017 we invite you to join us for dinner including special evening programme. As this is an option, please indicate your participation on the registration form accordingly when registering.



14th Symposium

Magnetoresistive Sensors and Magnetic Systems

21st and 22nd March 2017 in Wetzlar



14th Symposium „Magnetoresistive Sensors
and Magnetic Systems“

WHO SHOULD ATTEND

The MR-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.

The conference covers subjects like:

- New XMR technologies sensor concepts
- Signal conditioning
- Innovative applications
- New project results
- Sources of project funding
- New magnet technologies
- and many others

Register now under
www.xmr-symposium.com

Time	Topic	Speaker
Tuesday, 21st March 2017		
10.00 - 10.15	Welcome and introduction	Rolf Slatter, Sensitec GmbH
10.15 - 10.45	Sensors 4.0 – Smart sensors and measurement technology enable Industry 4.0	Andreas Schütze, University Saarland
10.45 - 11.15	Wireless position measuring in linear guides using integrated TMR sensors	Ralf Lindemann, NTN-SNR Wälzlager GmbH
11.15 - 11.45	Modular sensor systems for real time process control and smart condition monitoring using XMR technology	Nicolai Helwig, University of Saarland
11.45 - 12.15	Robust wear-detecting sensor concepts to realize innovative services and availability-oriented business models in capital good industry	Timo Wiegel, Technical University Kaiserslautern
12.15 - 13.15 Lunch		
13.15 - 13.45	Dual AMR motor position sensor for safety critical applications	Enda Nicholl, Analog Devices International, IE
13.45 - 14.15	A CMOS-integrated sensor level self-x-feature realization for XMR sensors and its use potential for higher-level intelligent condition monitoring and system healing	Andreas König, Technical University Kaiserslautern
14.15 - 14.45	Integrated signal conditioning for XMR sensors	Joachim Quasdorf, IC Haus GmbH
14.45 - 15.15	nCapsulate: a functional packaging solution for your MR system	Ignas van Dommelen, Sencio Packaging Center, NL
15.15 - 15.45 Coffee break		

Time	Topic	Speaker
Tuesday, 21st March 2017		
15.45 - 16.15	From mine to magnet - Raw materials processing of rare earth permanent magnets	Bernd Grieb, Magnequench GmbH
16.15 - 16.45	Higher design flexibility and better accuracy using optimal magnetic scales	Torsten Becker, Bogen Electronic GmbH
16.45 - 17.15	Current measurement with special TMR Sensors from Sinomags	Jianguo Wang, Sinomags Technology Co. Ltd., CN
19.00 Conference dinner and evening show in town hall. Please indicate your participation on the registration form.		

Time	Topic	Speaker
Wednesday, 22nd March 2017		
8.30 - 9.00	German framework programme for research and innovations including international initiatives (ECSEL, PENTA) (presentation in German)	Andreas Berns, VDI/VDE Innovation + Technik GmbH
9.00 - 9.30	Understanding magnetic sensor operation by direct microscoping imaging	Mathias Kläui, University Mainz
9.30 - 10.00	Temperature dependence of AMR and GMR sensor properties	Felix Nording, Technical University Braunschweig
10.00 - 10.30 Coffee break		
10.30 - 11.00	New generation 3D magnetometer for novel applications on portable devices	Max Lai, iSentek Technology Inc., TW
11.00 - 11.30	Highly-integrated rotor position sensors for e-motors	Michael Ludwig, TE Connectivity Ltd.

Time	Topic	Speaker
Wednesday, 22nd March 2017		
11.30 - 12.00	A new approach for high resolution linear position measurement systems	Dr. Rolf Slatter, Sensitec GmbH
12.00 - 12.30	Development of a magneto-resistive angular position sensor for space mechanisms	Tilo Schmidt Hoch Technologie Systeme GmbH
12.30 - 13.30 Lunch		
13.30 - 14.00	Application of magnetoresistive sensors in neuronal bridge monitoring system	Oliver Schneider, Pötzl Ingenieure GmbH
14.00 - 14.30	AMR based detection of rail vehicle	Ronny Lettke, Innovent e. V.
14.30 - 15.00	GMR sensor arrays for high spatial resolution testing in NDE applications	Matthias Pelkner, Bundesanstalt für Materialforschung und -prüfung (BAM)
15.00 - 15.15 Coffee break		
15.15 - 15.45	Position measuring at variable area flowmeters with AMR angle sensors	Jochen Friderich, Krohne Messtechnik GmbH
15.45 - 16.15	Ultra-flexible, stretchable and printed GMR sensors	Michael Melzer, IFW Dresden
16.15 - 16.45	Stray fields and magnetic position sensors	David Schneider, AMS AG, AT
16.45 - 17.00	Outlook and closing remarks	Rolf Slatter, Sensitec GmbH