15th Symposium „Magnetoresistive Sensors and Magnetic Systems“

In our current „age of digitalization“ sensors play an especially important role, be it for the measurement of movement, orientation, electrical current or magnetic fields. Completely new applications are emerging. In order to fulfil novel and even more demanding requirements a close cooperation between science and industry is necessary. The MR-Symposium provides the ideal platform for an update regarding the latest developments.

You are a forward-thinking expert in the field of magnetic sensor technology and you would like to be inspired by the latest developments in this field? Join us at the MR Symposium Magnetic. 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, e. g. automotive sector, industrial automation, bio technology, condition monitoring and others. The presentations cover also fundamental technological advances, e. g. in TMR sensor technology. Participants gain an overview of research findings and latest developments - to be prepared for the sensorization of the future.

REGISTRATION

HOW TO REGISTER

Please register by post, fax or internet. Your registration is requested **by 8th March 2019**. If you cancel your participation after 1st March 2019 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 or load it down from www.xmr-symposium.com .

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

Fee
With early bird discount (til 18th Feb. 2019):
Euro 550 plus VAT
After 18th February 2019: Euro 620 plus VAT
Student fee: Euro 250 plus VAT
For members of the AMA Association for Sensors & Measurement we give a special discount of 50 Euro.

Important information
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.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 photographies or video material will be created which might be used for further publications.

YOUR CONTACT

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

Organisation
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Technical matters
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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 25th February 2019)
Hotel Bürgerhof
+49 6441 903-0 (until 25th February 2019
Michel Hotel Wetzlar
+49 6441 417-0 (until 15th February 2019)

Dinner and special programme
On 19th March 2019 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.

CONFERENCE PROGRAMME

15th Symposium „Magnetoresistive Sensors and Magnetic Systems“

WHO SHOULD ATTEND

The international MR-Symposium is addressed to technical and forward-thinking experts in many industrial areas such as the automotive industry, automation, medical technology, materials testing and consumer sectors.

Representatives of all 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 are invited to participate.

The conference covers subjects like:

- New XMR technologies and sensor concepts
- Condition monitoring
- Sensors in harsh environments
- Innovative applications
- Magnets and magnetic properties
- Bio sensor technology
- Roadmap for MR sensors in the new age of the car

Register now under
www.xmr-symposium.com

Time	Topic	Speaker
Tuesday, 19th March 2019		
10.00 - 10.15	**Welcome and introduction**	Rolf Slatter, Sensitec GmbH
10.15 - 10.45	**Magnetic position sensor system with submicron accuracy**	Johannes Paul, Sensitec GmbH
10.45 - 11.15	**Advanced TMR sensing solutions for reliable, precise and robust motor control applications**	Matthieu Rezé, TDK-Micronas GmbH
11.15 - 11.45	**Magnetoresistive materials and sensors: seeking for solutions that meet the application specifications**	Susanna Cardoso de Freitas, INESC-MN, Portugal
11.45 - 12.15	**Implementation and results of a nonius measuring system using TMR technology**	Mikael Bianchi, University of Applied Sciences of Southern Switzerland
12.15 - 13.15 Lunch		
13.15 - 13.45	**Robust predictive maintenance approach for the conveyor belt in potato harvesters monitored by AMR sensors**	Paaranan Sivasothy, Technical University of Kaiserslautern
13.45 - 14.15	**Applications of magnetoresistive technology in real-time machine monitoring**	Patrick Langfeldt, optiMEAS Measurement and Automation Systems
14.15 - 14.45	**MR sensors for condition monitoring of insulation ageing in electrical machines: preliminary analysis and future prospects**	Luca Peretti, KTH Royal Institute of Technology, Sweden
14.45 - 15.15	**Spin electronics based sensors for biological applications**	Claude Fermon, CEA, IRAMIS, France
15.15 - 15.45 Coffee break		
15.45 - 16.15	**Rugged bearing-less modular encoders for harsh industrial environment**	Bill Mueller, Nidec Industrial Solutions | Avtron Sensors and Actuators, USA
16.15 - 16.45	**AMR sensors under harsh magnetic conditions**	Stefan Basler, Baumer MDS GmbH
16.45 - 17.15	**Sensor for oil drilling head**	Amir Souii, Baker Hughes
19.00 Conference dinner and evening show in town hall. Please indicate your participation on the registration form.		

Time	Topic	Speaker
Wednesday, 20th March 2019		
8.30 - 9.00	**Diamond for quantum-tec magnetometry**	Christoph Nebel, Fraunhofer IAF Freiburg
9.00 - 9.30	**High pulsed magnetic fields: applications and measurement with magnetoresistive sensors**	Jonas Klimantavicius, State Centre for Physical Sciences and Technology, Lithuania
9.30 - 10.00	**Simultaneous measurement of resistance and temperature in Wheatstone bridge circuits**	Klemens Gintner, University of Applied Sciences Karlsruhe
10.00 - 10.30 Coffee break		
10.30 - 11.00	**Optimization of magnetic systems through finite-element modeling**	Martijn Leskens, Goudsmit Magnetic Systems, Netherlands
11.00 - 11.30	**Characterization tool of the magnetic properties at the local scale**	Aurélie Solignac, CEA, IRAMIS, France
11.30 - 12.00	**High-precision magnets for new Hall-effect based position sensors**	Richard Arlot, Bomatec AG, Switzerland
12.00 - 12.30	**Magneto optical sensors for magnetic stray field examinations**	Rocco Holzhey, Innovent e. V.
12.30 - 13.30 Lunch		
13.30- 14.00	**Application of MR sensors in a linear transportation system**	Andre Akkerman, Jeroen Vennegoor op Nijhuis, Bosch Rexroth, Netherlands
14.00 - 14.30	**New approach for linear position measurement**	Andreas Voss, TE Connectivity
14.30 - 15.00	**A novel stray field compensation for angular AMR sensors**	Kris Rohrmann, Ostfalia University of Sciences
15.00 - 15.15 Coffee break		
15.15 - 15.45	**XMR sensors for 3D printers**	Meinhard Schilling, Technical University of Braunschweig
15.45 - 16.15	**AMR-based mechanical pressure sensors: a proof of concept**	Maren Prediger, University of Hannover
16.15 - 16.45	**Roadmap for MR sensors in the automotive sector / Sensors in the new age of the car**	Richard Dixon, IHS Markit
16.45 - 17.00	**Outlook and closing remarks**	Rolf Slatter, Sensitec GmbH

Preliminary programme.
We reserve the right to make changes without prior notice