

CRC 1261 Summer School 2019

Call for participation

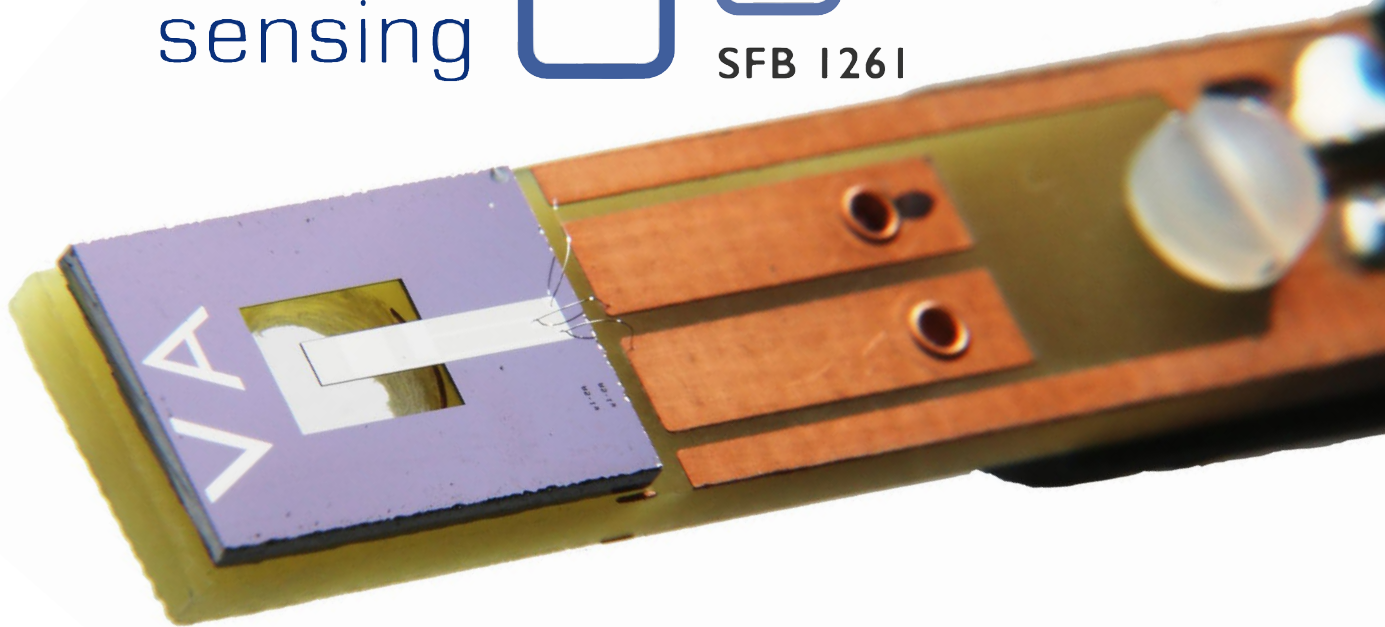
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Kiel University
Christian-Albrechts-Universität zu Kiel

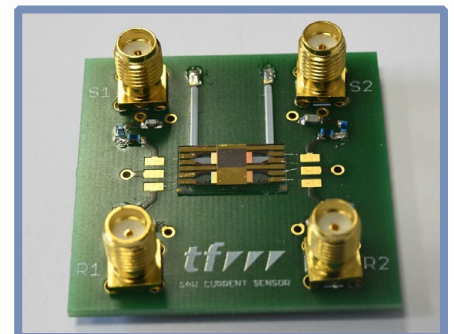
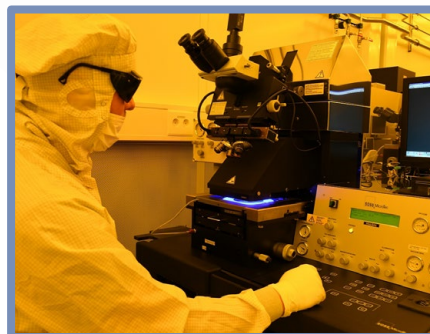
biomagnetic
sensing



SFB 1261



Magnetic sensing and applications in medicine and industry – state of the art and new prospects



Event

The interdisciplinary Collaborative Research Center (CRC) 1261 “Magnetolectric Sensors: From Composite Materials to Biomagnetic Diagnostics” funded by the German Research Foundation (DFG) at Kiel University (for further information see www.sfb1261.de) will hold an international Summer School on 19-21 August 2019 in Kiel, Germany.

Location

The Summer School 2019 will take place at Kiel University, founded in 1665. The city is located on the shores of the Baltic Sea. In addition to its scientific prowess, the city of Kiel is renowned for its big sailing events, beautiful beaches and numerous festivals. Additionally, the city offers many opportunities for cultural tours and outdoor activities.

Magnetic sensing and applications in medicine and industry – state of the art and new prospects

Magnetolectric sensors can be used in both industrial and medical/biological applications. Sensors currently developed within the framework of CRC 1261 (for further information see www.sfb1261.de) aim at the detection of biomagnetic signals from the brain, heart, nerves and magnetically labeled cells. Additional applications, according to the needs of industry, are considered for future funding periods.

The 3-day schedule of the Summer School includes:

- Talks by invited speakers, including experts from industry
- Laboratory visits within the Faculty of Engineering: Kiel Nanolab, magnetically shielded room, facilities of the Departments of Materials Science and Electrical Engineering
- Soft skills courses for improving interdisciplinary and intercultural skills
- Participants will be asked to present their work as a poster or in a short talk
- Poster award for the best poster
- Participants will have the possibility to network with representatives of Kiel University

Interested in Participation?

Please apply by sending the following documents in one pdf document to summerschool@sfb1261.de

- a short CV,
- a brief description of maximum one page that describes why you want to attend the summer school
- an abstract about your scientific research.

The summer school is open for submissions.

Participants must cover their own travel costs, the CRC 1261 covers the accommodation costs.

There will be 30 places for external participants. If there are more applications, the participants will be selected according to their motivation letter and abstract.

Topics covered:

- Sensor concepts, fabrication, characterization, modeling, benchmarking
- Sensor array building and desing
- Measurement electronics
- Signal processing
- Forward/inverse problems and sensor fusion
- Medical diagnostics