

## Magnetism and Medicine Linked Closely

Symposium of the Heidelberg Academy of Sciences at the KIT



*Since 1920, the Heidelberg Academy of Sciences has been having its office at the former Grand Duke's Palace below Heidelberg castle on Karl's Square. (Photo by: Akademie/Jessen Oestergaard)*

On the occasion of its 100<sup>th</sup> anniversary, the Heidelberg Academy of Sciences is organizing the interdisciplinary symposium "Magnetism and Medicine". It will take place within the framework of the International Conference on Magnetism (ICM 2009) organized by the Universität and Forschungszentrum Karlsruhe. Journalists are cordially invited to attend the symposium on Tuesday, July 28, 18 hrs, at the Tulla-Hörsaal (building 11.40, Englerstraße 11, campus of Universität Karlsruhe).

The symposium will illustrate how closely linked physical research activities in the field of magnetism and medicine are. Examples are latest developments in magnetic resonance imaging, the investigation of brain functions with highly sensitive sensors (SQUIDS) for the precise measurement of extremely small magnetic fields caused by brain waves as well as applications of magnetic nanoparticles in medical diagnosis and therapy.

**Dr. Elisabeth Zuber-Knost**  
Press Officer

Kaiserstraße 12  
76131 Karlsruhe, Germany  
Phone: +49 721 608-7414  
Fax: +49 721 608-3658

**For further information, please  
contact:**

Monika Landgraf  
Press Office  
KIT  
Phone: +49 721 608 8126  
Fax: +49 721 608 3658  
E-mail: [Monika.Landgraf@kit.edu](mailto:Monika.Landgraf@kit.edu)

Dr. Herbert von Bose  
Press Office  
Heidelberg Academy of Sciences  
Phone: +49 6221 54 34 00  
Fax: +49 6221 54 33 55  
E-mail: [Herbert.vonBose@adw.uni-heidelberg.de](mailto:Herbert.vonBose@adw.uni-heidelberg.de)

## **Program**

18.00 hrs Opening

**Prof. Dr. Horst Hippler**

President of Universität Karlsruhe

Welcome

**Prof. Dr.-Ing. Hermann H. Hahn**

President of the Heidelberg Academy of Sciences and Humanities

## **Lectures**

**Prof. Dr. Jens Frahm**

Max Planck Institute for  
Biophysical Chemistry, Göttingen  
“Magnetic Resonance Imaging –  
an Ongoing Success Story”

**Prof. Dr. Hans Koch**

Physikalisch-Technische Bundesanstalt Berlin  
“SQUID Applications in Medicine”

**Prof. Dr. Matthias Taupitz**

Charité Berlin  
“Magnetic Particles for in-vivo Imaging”

## **Scientific Management**

**Prof. Dr. Hilbert v. Löhneysen**

Universität Karlsruhe and Forschungszentrum Karlsruhe

The **Heidelberg Academy of Sciences and Humanities** founded in 1909 is the scientific academy of the state of Baden-Württemberg and one of the eight German academies of sciences. In 2009, it is celebrating its 100<sup>th</sup> anniversary. As a non-university research institution, it is presently in charge of 20 research projects with about 220 scientists involved. The about 180 elected members of the Heidelberg Academy are excellent representatives of their disciplines and meet regularly for interdisciplinary discussion. The Academy organises scientific meetings as well as public presentations. With the establishment of a group of young researchers (WIN-Kolleg) in 2002, the organisation of “Academy conferences of young scientists”, and the granting of research awards, it supports excellent young researchers.

**The Karlsruhe Institute of Technology (KIT) is the merger of the Forschungszentrum Karlsruhe, member of the Helmholtz Association, and the Universität Karlsruhe. This merger will give rise to an institution of internationally excellent research and teaching in natural and engineering sciences. In total, the KIT has 8000 employees and an annual budget of 700 million Euros. The KIT focuses on the knowledge triangle of research – teaching – innovation.**

**The Karlsruhe institution is a leading European energy research center and plays a visible role in nanosciences worldwide. KIT sets new standards in teaching and promotion of young scientists and attracts top scientists from all over the world. Moreover, KIT is a leading innovation partner of industry.**

**This press release is available on the internet under [www.kit.edu](http://www.kit.edu).**