



ELSEVIER

Contents lists available at [ScienceDirect](http://www.sciencedirect.com)

# Journal of Magnetism and Magnetic Materials

journal homepage: [www.elsevier.com/locate/jmmm](http://www.elsevier.com/locate/jmmm)

## Preface



This special issue of the Journal of Magnetism and Magnetic Materials is a collection of papers from presentations at the 10th International Conference on the Scientific and Clinical Applications of Magnetic Carriers that was held in Dresden, Germany on June 10–14, 2014. These papers were selected after an intensive peer-review with a minimum of two reviewers per paper. The editors are thankful and indebted to over 100 reviewers who helped in the selection of 67 manuscripts for publication.

Dresden, also known as the beautiful Florence on the Elbe, was the perfect location for the 10th conference of our biannual meeting schedule. The meeting was held on the Campus of the Technische Universität Dresden where the co-organizer Prof. Stefan Odenbach (TU Dresden) and his staff facilitated an impressive meeting for the 342 participants who came from all continents. In our unique linear structure of consecutive sessions, participants were able to hear 57 research talks and 7 invited talks and had the opportunity to discuss state-of-the art research during two poster sessions with 275 posters. The talks and poster sessions were held at the Zeunerbau, among the oldest buildings on campus and the home of TU Dresden's Mechanical Engineering Faculty. Our numerous sponsors provided delicious coffee breaks and participants were able to share their ideas during lunch breaks at TU Dresden's award winning cafeteria. The highlight of the social program was the boat trip on the river Elbe aboard the world's oldest steam wheeler fleet, and an evening reception at the Dresden Transport Museum. Among the many scientific highlights presented during the meeting were Prof. Christoph Alexious' talk on the interdisciplinary Section of Experimental Oncology and

Nanomedicine (SEON), a concept that will lead SPION research from pre-clinical results into clinical trials, and Dr. Joachim Clement's tutorial on "Biology for the Physicist, Chemist and Engineer". There were several other highlights that the interested reader can find at the conference website at <http://www.magneticmicrosphere.com>.

We, the editors, hope that this JMMM issue and the experiences at past meetings will encourage you to attend our next meeting in Vancouver, Canada, and to take the opportunity to then visit the Pacific Northwest of North America in June 2016. Please see the announcement for the next and 11th International Conference on the Scientific and Clinical Applications of Magnetic Carriers as it appears later in this issue.

Urs Hafeli, Thomas Schneider  
*University of British Columbia, Faculty of Pharmaceutical Sciences,  
Canada*

Stefan Odenbach  
*TU Dresden, Mechanical Engineering Faculty, Germany*

Maciej Zborowski  
*The Cleveland Clinic Foundation, Department of Biomedical  
Engineering, United States*

Wolfgang Schütt  
*FH Krems, Medical and Pharmaceutical Biotechnology, Austria*