

Proceedings of the 11th International Conference on Magnetic Fluids (ICMF 11) (Košice, Slovakia, 23–27 July 2007)

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## PREFACE

# Proceedings of the 11th International Conference on Magnetic Fluids (ICMF 11) (Košice, Slovakia, 23–27 July 2007)

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The 11th International Conference on Magnetic Fluids (ICMF 11) was held in Košice, Slovakia between 23–27 July 2007. Attendance at the conference was high and its motivation was in line with the ten previous ICMF conferences organized in Udine, Orlando, Bangor, Sendai-Tokyo, Riga, Paris, Bhavnagar, Timisoara, Bremen and Guarujá. The conference in Slovakia reflected the scientific community's enthusiasm and worldwide support, with 256 participants, from 30 countries attending. The main objective of ICMF 11 was to promote progress and knowledge in the field of magnetic fluids regarding their chemistry, physical and magnetic properties, heat and mass transfer, surface phenomena, as well as their technological and biomedical applications. As research on magnetic fluids is essentially interdisciplinary, experts from related areas were invited to present their contributions with a view to increasing knowledge in the field and highlighting new trends. Submitted communications were refereed by members of the Scientific Organizing Committee and abstracts were assembled in a book of abstracts. Participants presented 180 posters in two poster sessions and 56 oral presentations. All presentations contributed to a greater understanding of the area, and helped to bridge the gap between physics, chemistry, technology, biology and medical sciences. Contributions to this conference are presented in 115 scientific papers, with some published in *Journal of Physics: Condensed Matter* and the rest in *Magneto hydrodynamics*.

The organization of the conference was made possible by generous support from the Institute of Experimental Physics and Institute of Geotechnics of the Slovak Academy of Sciences, the University of Pavol Jozef Šafárik and the Slovak Physical Society. Financial support from Ferrotec, Cryosoft Ltd, Mikrochem, Liquids Research Ltd, Askony and US Steel Košice, is also gratefully acknowledged.