

JEMS 2013

The 7th Joint European Magnetic Symposia (JEMS 2013) were held in Rhodes, Greece, on August 24-30, 2013. JEMS 2013 was an EPS sponsored conference jointly organized by the NCSR Demokritos, Aristotle University of Thessaloniki and the University of Delaware, USA. The Joint European Magnetic Symposia are the most important and comprehensive conference on magnetism in Europe. Previous JEMS conferences took place in Grenoble (2001), Dresden (2004), San Sebastian (2006), Dublin (2008) and Krakow (2010) and Parma (2012).

The success of the conference was made possible by the quality and diversity of the contributions as well as by the lively discussions that followed both the oral and the poster sessions. JEMS2013 was attended by 560 delegates, including 200 students (32%), originating from 39 countries. The 9 Symposia, which attracted ~ 700 contributions, were focused on a broad range of topics embracing fundamental aspects and application aspects of magnetism, as well as novel magnetic materials.

The conference programme consisted of 5 plenary, 12 semi-plenary, 9 symposia oral and 3 poster sessions (for all 9 symposia); we had also 43 invited talks, 205 oral presentations and 400 poster presentations.

The symposia at JEMS 2013 and the names of their organizers were as follows:

1. Spin electronics

Symposium Organizers: A. Deac, G. Gaudin, G. Kioseoglou

2. Magnetization dynamics and magnetization processes

Symposium Organizers: C. Marrows, T. Schrefl, J. Ruzs, A. Lyberatos

3. Magnetism in metal alloys and intermetallics

Symposium Organizers: F. Albertini, A. Romero, O. Isnard, C. Christides

4. Magnetic materials for energy

Symposium Organizers: K. Sandeman, S. Jiang, J. Giapintzakis

5. Magnetic nanostructures, surfaces, interfaces, molecular nanomagnets

Symposium Organizers: M. Farle, P. Luches, V. Psycharis

6. Magnetic Recording, sensors and microwave devices

Symposium Organizers: T. Thomson, G. Bertero, V. Papaioannou

7. Strongly correlated electron systems including magnetism and superconductivity

Symposium Organizers: B. Stamps, S. J. Clarke, M. Pissas

8. Medical, Biomedical, Biomagnetic and biotechnology applications

Symposium Organizers: R. Ibarra, O. Kazakova, D. Stamopoulos

9. Multiferroics, frustrated and disordered magnets

Symposium Organizers: N. Kioussis, M. Kenzelmann, I. Panagiotopoulos

A special session is organized on Tuesday afternoon on

“HORIZON 2020: Opportunities in magnetism”

Speaker Mrs Anne de Baas, PhD, MBA,

The success of JEMS 2013 owes everything to the efforts of the Symposium Organizers, the Programme Committee, chaired by Prof. George Hadjipanayis, Prof. Manfred Albrecht and Dr. Alexandros Lappas, the International Advisory Committee, chaired by Dominique Givord and the Publications Committee, chaired by Popi Trohidou.

The Local organizing committee did an excellent job in organizing a flawless meeting. Also the excellent facilities and catering offered by the conference made an essential contribution.

The meeting arrangements were effectively managed by Triaena Tours and Congress, SA.

We would like to acknowledge the institutional support received by:

NCSR Demokritos, Aristotelian University of Thessaloniki, University of Ioannina, European Physical Society, IOP publishing and AJA International, American Elements, Amen Technologies, attocube systems, Cryogenic, Gr-Magnet, Hinds Instruments, Lake Shore, LOT-Oriel, METKA, NanoTherics, Anelis, Rigaku and Zhong Ke San Huan.

Finally, some contributors made the additional effort of turning their presentations into a high quality written report, which we now offer to the research community in the form of these proceedings published open access and available online. This should further strengthen the dissemination of the research presented at this conference.

The turnout of JEMS 2013 demonstrated that magnetism continues to be an exciting field of research with bright prospects for the future.

The next JEMS 2016 edition will be held in Glasgow, UK, August or September.

The JEMS 2013 Conference Chairs:

Dr. Dimitris Niarchos, NCSR Demokritos, Athens, Greece

Prof. G. Hadjipanayis, Physics Department, U of Delaware, USA

Prof. Orestis Kalogirou, department of Physics, Aristotelian University, Greece



25-30 August 2013

Rodos Palace Convention Center RHODES, Greece