

Proceedings of the European Conference
PHYSICS OF MAGNETISM '99
Poznań, Poland, June 21–25, 1999

Part I

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PREFACE

The European Conference *PHYSICS OF MAGNETISM '99* was held on June 21–25, 1999 in Poznań (Poland) at the Science Center of the Polish Academy of Sciences. The Conference was organized jointly by the Institute of Physics of Adam Mickiewicz University in Poznań and the Institute of Molecular Physics of the Polish Academy of Sciences. It was the ninth conference of the series organized every 3 years since 1975.

The Conference was meant as an international forum for the presentation and discussion of novel scientific ideas and experimental results, in a field of broadly understood magnetic phenomena and new magnetic materials, with a special emphasis on the following subjects:

- correlated electrons and high temperature superconductors,
- heavy fermions, fluctuating valence and Kondo systems,
- novel metallic oxides and anomalous magnetoresistive materials,
- magnetic multilayers, surfaces, and nanostructures,
- quantum tunneling and magnetism in nanoscale,
- low dimensional quantum magnets,
- electronic structure.

The main objective of the Conference was to bring together scientists and technologists from the Western, Central, and Eastern European countries involved in research and application of new magnetic materials and high temperature superconductors.

The program of the Conference consisted of 27 invited talks, presented by distinguished physicists from Europe and USA (P. Horsch, J. Kübler, and F. Steglich from Germany, J. Sólyom from Hungary, C. Castellani from Italy, P. Wachter from Switzerland, G.E.W. Bauer, P.S. Anil Kumar, and G.A. Sawatzky from the Netherlands, J. Flouquet, J. Ranninger, and J.M. de Teresa from France, G.A. Gehring and P. Littlewood from UK, A. del Moral from Spain, J.I. Budnick, B.R. Cooper, J.M. Honig, G.D. Mahan, and Y.J. Uemura from USA as well as J. Korecki, S. Krompiewski, J.A. Morkowski, J. Spałek, H. Szymczak, A. Ślebarski, and R. Troć from Poland). Besides, about 270 contributions were presented in either poster or oral form. There were 266 participants from Poland and other 14 European countries as well as from USA, Japan, and Australia.

The invited talks provided by the Authors and the selected contributed papers are published in the Conference Proceedings, consisting of the present and two forthcoming issues of *Acta Physica Polonica A* (Vol. 97, No. 3 and No. 5).

The major sponsors of the Conference, i.e. Committee for Scientific Research, Ministry of National Education, Committee of Physics of the Polish Academy of Sciences, and “Kasa im. Józefa Mianowskiego” — Fundacja Popierania Nauki are kindly acknowledged.

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Editors of the Proceedings