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**A. Jeziński and A. Kowalczyk,**  
Institute of Molecular Physics, Polish Academy of Sciences, Poznań, Poland

**S. Bluegel,**  
IFF, Forschungszentrum Juelich, Juelich, Germany

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*Centre of Excellence: Magnetic and Molecular Materials for Future Electronics*

**Institute of Molecular Physics, Polish Academy of Sciences**  
ul. Mariana Smoluchowskiego 17, 60-179 Poznań, Poland

## **SCHEDULE**

### **Sunday, 14 September**

- 16.00-18.00** *Transportation to Będlewo and Registration*  
**19.00** *Reception and get-together*

### **Monday, 15 September**

- 8.50- 9.00** *OPENING*  
**Chairman: W. Temmerman**  
**9.00-10.30** **J. Hafner** *First-principles investigations of magnetic nanostructures*  
**10.30-11.00** *Coffee*  
**11.00-12.30** **H. Kroha** *Nonlinear transport of electrons and spins in correlated mesoscopic structures*  
**12.30-13.00** **M. Kosuth** *Electronic, magnetic and transport properties of ferromagnet-semiconductor heterostructure systems*  
**13.00-14.00** *Lunch*  
**Chairman: J.A. Morkowski**  
**14.30-16.00** **L. Nordstroem** *Unconstrained non-collinear calculations of complex magnetic materials*  
**16.00-16.30** *Coffee*  
**16.30-18.00** **J.M. Greneche** *Nanocrystalline alloys: structural aspects and magnetic properties*  
**18.00-18.30** **A. Postnikov** *Ab-initio simulations of molecular magnets*  
**19.00** *Dinner*

### **Tuesday, 16 September**

- Chairman: K.-H. Mueller**  
**9.00-10.30** **R. Wiesendanger** *Frontiers of nanomagnetism investigated by spin-polarized scanning tunneling spectroscopy*  
**10.30-11.00** *Coffee*  
**11.00-12.30** **H. Eschrig** *Relativistic density functional approach and magnetism*  
**12.30-13.00** **J. Hafner** *Non-collinear magnetism and phase-stability of Mn*  
**13.00-14.00** *Lunch*  
**Chairman: R. Wiesendanger**  
**14.30-16.00** **K. Baberschke** *The magnetism of ultrathin trilayers: A playground to study fundamentals*  
**16.00-16.30** *Coffee*  
**16.30-18.00** **D. Szotek** *SIC-LSD description of half-metallic transition metal oxides*  
**18.00-18.30** **M. Richter** *Magnetocrystalline anisotropy of strained transition metals and rare-earth intermetallics: density functional calculations*  
**19.00** *Dinner*  
**20.00-22.00** *Posters*



### Wednesday, 17 September

**Chairman: J. Hafner**

- 9.00-10.30** J. Kirschner *Recent developments in nanoscale magnetism*  
**10.30-11.00** *Coffee*  
**11.00-12.30** H. v. Loehneysen *Heavy fermion systems near a magnetic instability*  
**12.30-13.00** M. Przybylski *Fe-based spin aligners grown on semiconducting substrates*  
**13.00-14.00** *Lunch*

**Chairman: H. von Loehneysen**

- 14.30-16.00** H. Ebert *Magnetic and spectroscopy properties of free and supported transition metal clusters*  
**16.00-16.30** *Coffee*  
**16.30-18.00** K.-H. Mueller *Magnetism in low-dimensional cuprates*  
**18.00-18.30** F. Stobiecki *Magnetoresistance of Ni<sub>80</sub>Fe<sub>20</sub>/Au/Co/Au multilayers*  
**18.30-19.30** *Oral Session* (M. Zwierzycki / J. Dubowik / B. Idzikowski)  
**20.00** *Banquet*

### Thursday, 18 September

**Chairman: H. Eschrig**

- 9.00-10.30** S. Blugel *Magnetism under the scanning tunneling microscope*  
**10.30-11.00** *Coffee*  
**11.00-12.30** W. Temmerman *Self interaction corrected electronic structure calculations for correlated systems*  
**12.30-14.00** V. Eyert *Ab-initio calculations for low-dimensional magnetic systems*  
**14.00-15.00** *Lunch*  
**Chairman: K. Baberschke**  
**15.30-17.00** F. Petroff *Magnetic tunnel junctions: review of experimental results and perspectives*  
**17.00-17.30** *Coffee*  
**17.30-19.00** T. Jungwirth *Transport and magnetic properties of ferromagnetic (III,Mn)V semiconductors*  
**19.30** *Bonfire*

### Friday, 19 September

**Chairman: S. Blugel**

- 9.00-10.30** O. Eriksson *Electronic structure of dilute magnetic semiconductors*  
**10.30-11.00** *Coffee*  
**11.00-12.30** A. Ślebarski *Electronic structure and thermodynamical properties of some ternary d and f electron intermetallics*  
**12.30-13.15** J.A. Morkowski *Fast magnon relaxation*  
**13.15-13.45** S. Krompiewski *Ferromagnetically contacted metallic carbon nanotubes with spin-selective interfaces*  
**14.00-15.00** *Lunch*  
**15.00** *Excursion*  
**20.00** *Dinner*



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## LIST OF INVITED SPEAKERS

***K. Baberschke***

Institut fuer Experimentalphysik, Freie Universitaet Berlin, Berlin, Germany

**"The magnetism of ultrathin trilayers: A playground to study fundamentals"**

***S. Bluegel***

IFF, Forschungszentrum Juelich, Juelich, Germany

**"Magnetism under the scanning tunneling microscope"**

***H. Ebert***

Universitaet Muenchen, Muenchen, Germany

**"Magnetic and spectroscopic properties of free and supported transition metal clusters"**

***O. Eriksson***

Department of Physics, Uppsala, Sweden

**"Electronic structure of dilute magnetic semiconductors"**

***H. Eschrig***

IFW Dresden, Dresden, Germany

**"Relativistic density functional approach and magnetism"**

***V. Eyert***

Universitaet Augsburg, Augsburg, Germany

**"Ab-initio calculations for low-dimensional magnetic systems"**

***J.-M. Greneche***

Universite du Main, Le Mans, France

**"Nanocrystalline alloys: structural aspects and magnetic properties"**

***J. Hafner***

Institut fuer Metalphysik, Universitaet Wien, Wien, Austria

**"First-principles investigations of magnetic nanostructures"**

**"Noncollinear magnetism and phase-stability of Mn"**

***T. Jungwirth***

Institute of Physics, Academy of Sciences of the Czech Republic, Prague, Czech Republic

**"Transport and magnetic properties of ferromagnetic (III, Mn)V semiconductors"**

***J. Kirschner***

Max-Planck Institut fuer Mikrostrukturphysik, Halle/Saale, Germany

**"Recent developments in nanoscale magnetism"**



**H. Kroha**

Physikalisches Institut der Universitaet Bonn, Bonn, Germany

**"Nonlinear transport of electrons and spins in correlated mesoscopic structures "**

**H. von Loehneysen**

Forschungszentrum Karlsruhe, Institut fuer Festkoerperphysik, Karlsruhe, Germany

**"Heavy fermion systems near a magnetic instability"**

**K.-H. Mueller**

IFW Dresden, Dresden, Germany

**"Magnetism in low-dimensional cuprates"**

**L. Nordstroem**

Department of Physics, Uppsala University, Uppsala, Sweden

**"Unconstrained non-collinear calculations of complex magnetic materials"**

**F. Petroff**

Univ. Paris-Sud, Orsay, France

**"Magnetic tunnel junctions: review of experimental results and perspectives"**

**A. Ślebarski**

Department of Physics, Silesian University, Katowice, Poland

**"Electronic structure and thermodynamical properties of some ternary d and f electron intermetallics"**

**Z. Szotek**

Daresbury Laboratory, Daresbury, U.K.

**"SIC-LSD description of half-metallic transition metal oxides"**

**W. Temmerman**

Daresbury Laboratory, Daresbury, U.K.

**"Self interaction corrected electronic structure calculations for correlated systems"**

**R. Wiesendanger**

Institute of Applied Physics, University of Hamburg, Germany

**"Frontiers of nanomagnetism investigated by spin-polarized scanning tunneling spectroscopy"**

