



# European School on Magnetism 2011



## Time-dependent phenomena in magnetism

**Bine ați venit !**

100 participants  
20 countries  
32 nationalities

Many thanks to the Valahia  
University of Târgoviște for  
hospitality

The poster for the European School on Magnetism 2011, titled "TIME-DEPENDENT PHENOMENA IN MAGNETISM". It features the ESM logo, dates (Aug 22nd - Sep. 2nd 2011), and location (Targoviste - Romania). It includes a list of organizers, a scientific committee, topics, means of learning, and lecturers. It also mentions European partners and logos of various institutions.

**Aug 22nd - Sep. 2nd 2011**  
**Targoviste - Romania**

**EUROPEAN SCHOOL ON MAGNETISM 2011**  
**TIME-DEPENDENT PHENOMENA IN MAGNETISM**

<http://esm.neel.cnrs.fr>

**Organizers**  
Jan VOGEL (chair), Grenoble  
Olivier FRUCHART, Grenoble  
Olivier ISHARD, Grenoble  
Claudine LACROIX, Grenoble  
Ioan GUCIU, Targoviste  
Celine DROS, Targoviste  
Laura M. GORGHIU, Targoviste  
Irina NITA, Targoviste  
Gabriel POPA, Targoviste  
Claudia STICH, Targoviste  
Martina VOICU, Targoviste

**Scientific committee**  
L. ABELMANN, Twente  
E. BRÜCK, Delft  
E. BURZO, Cluj  
M. COLEY, Dublin  
T. DETTL, Würzburg  
O. FRUCHART, Grenoble  
P. GAMBARDIELLA, Barcelona  
C. ISHARD, Grenoble  
J. KIRSCHNER, Halle  
C. LACROIX, Grenoble  
M. RICHTER, Dresden  
D. SANDER, Halle  
L. SCHULTZ, Dresden  
H. SPALEK, Krefeld  
J. VOGEL, Grenoble  
W. WULFHEKEL, Karlsruhe

**European partners**  
Institut Néel & Spinico, Grenoble  
Babeş-Bolyai University, Cluj-Napoca  
University of Technology, Delft  
MPI für Hochstrukturforschung, Halle  
IFW, Dresden  
ICM, Barcelona  
Trinity College, Dublin  
Academy of sciences, Warsaw

**Topics**  
► Basic concepts  
► Exchange interactions and ordering  
► Coupling with the lattice  
► Temperature effects  
► Slow dynamics  
► Precessional dynamics  
► Ultra-fast dynamics  
► Experimental techniques

**Means of learning**  
Promoting a tight interaction between lecturers and attendees is a crucial aspect of ESM. To achieve this, the 40 hours of lectures alternate with question sessions, analytical and numerical practice, access to library dedicated to magnetism, and poster sessions dedicated to attendees' activities.

**Lecturers**  
D. Andrade (ro), G. Baymuther (de), S. Blundell (uk), E. Brück (nl), E. Burzo (ro), A. Cornia (it), U. Ebels (fr), P. Holdsworth (fr), W. Hülmer (de), A. Kirilyuk (nl), P. Mendels (fr), Z. Neda (ro), S. Pätz (fr), S. Raymond (fr), S. Rohart (fr), J. Vogel (fr), H. Zabel (de)

**Logos:** JEMS, CNRS, UNIVERSITÉ JOSEPH FOURIER, cea, nanoSCIENCES, SP, GEM, etc.

Final release - 1 June 2011

Jan Vogel, Institut Néel, Grenoble

# History

- 8<sup>th</sup> school and conference on physics since 1997
- Origin French-Romanian schools UJF-CNRS Grenoble-UBB Cluj  
O. Isnard, C. Lacroix, J.C. Toussaint, D. Givord, E. Burzo, V. Pop

*Nanomagnetism* (1997) Oradea

*High performance permanent magnets* (1999) Cluj-Napoca

*Spectroscopic analysis* (2001) Cluj

*Magnetism of nanoscopic systems and hybrid structures* (2003) Brasov

*New experimental approaches in magnetism* (2005) Constanta

*New Magnetic Materials and their Functions* (2007) Cluj

*Models in magnetism: from basic aspects to practical uses* (2009) Timisoara

*Time-dependent phenomena in magnetism* (2011) Târgoviște

**Last 3 schools have been European with founding members :**

Institut Néel & Spintec (Grenoble, France), Babes-Bolyai University (Cluj-Napoca Romania), University of Technology (Delft, The Netherlands), Max-Planck Institute for Microstructure Physics (Halle, Germany), IFW - Leibniz Institute for Solid State and Materials Research (Dresden, Germany), Institut Català de Nanotecnologia (Barcelona, Spain), Trinity College (Dublin, Ireland), Academy of Sciences (Warsaw, Poland)

# Organizing committee



I. Nita, C. Oros, C. Stihî, L.M. Gorghiu, R. Stanciulescu, I. Cuciu,  
G. Popa, M. Voicu  
University Valahia of Târgoviște, Romania



E. Burzo, V. Pop  
Babes-Bolyai University, Cluj-Napoca, Romania



O. Fruchart, O. Isnard, C. Lacroix, G. Omnès-Sabardak, J. Vogel  
Institut Néel, CNRS and UJF, Grenoble, France

# Scientific Advisory Committee

L. Abelman	Twente, Netherlands
E. Brück	Delft, The Netherlands
E. Burzo	Cluj, Romania
M. Coey	Dublin, Ireland
T. Dietl	Warsaw, Poland
O. Fruchart	Grenoble, France
P. Gambardella	Barcelona, Spain
O. Isnard	Grenoble, France
J. Kirschner	Halle, Germany
C. Lacroix	Grenoble, France
M. Richter	Dresden, Germany
D. Sander	Halle, Germany
L. Schultz	Dresden, Germany
J. Spalek	Krakow, Poland
J. Vogel	Grenoble, France
W. Wulfhekel	Karlsruhe, Germany

# Financial and logistic support

- \* Joint European Magnetic Symposia (JEMS)
- \* Centre National de la Recherche Scientifique (CNRS)
- \* Commissariat à l'Energie Atomique et aux énergies alternatives (CEA)
- \* Université Joseph Fourier (UJF)
- \* Ambassade de France en Roumanie
- \* Fondation Nanosciences
- \* Université de Grenoble
- \* University Valahia de Târgoviște
- \* Babes-Bolyai University
- \* Société Française de Physique (SFP)



### Other thanks for logistic help :

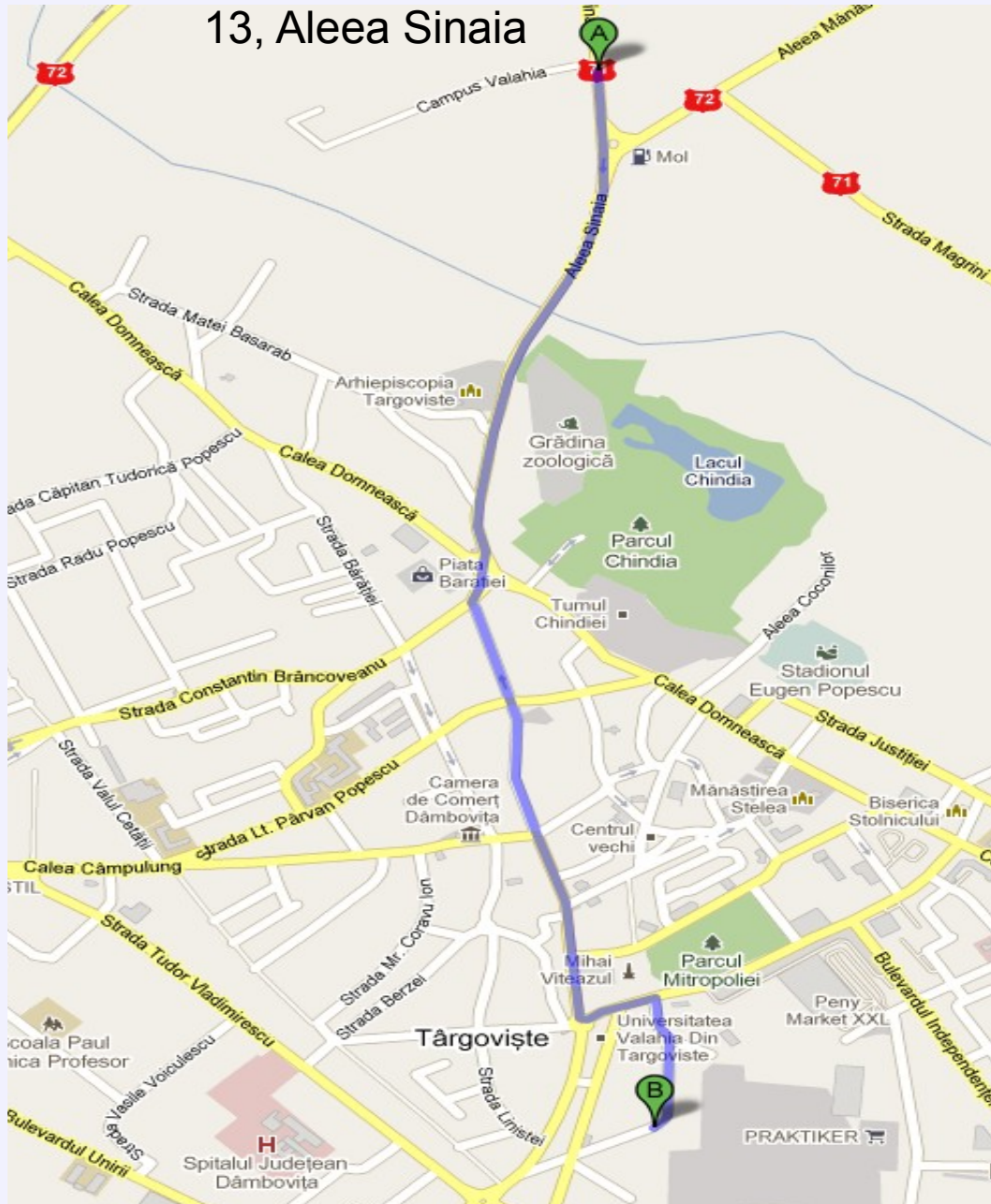
Tristan Combier, Sandrine Da Col, Emilie Jué, Emmanuelle Jal, Yuepeng Zhang, Van Dai Nguyen

Students who brought books from Grenoble : please bring them with you tomorrow, for the first practical + library session

If we are not in the conference room : secretariat 1<sup>er</sup> étage  
(above coffee room)



## Practical information



- Buses from campus to restaurant (breakfast) **every day at 07:30**
- Restaurant (breakfast, lunch, dinner) at 5 minutes walk from Conference Center
- Buses from restaurant to campus after dinner (or after practicals)
- **Practicals in Faculty of Economical Sciences**, 20 minutes walk from conference center

## Some more practical information

- Wireless internet in Conference center (corpKuvt, no password)
- Student residence : tap water is drinkable, otherwise mineral water in gas station 200 meters from the residence
- Beware of the dogs, some of them can be nasty ! (especially at night)
- No smoking inside residence --> balcony, terrace
- Keep the residence clean and in good condition !!
- First clips (2 transparencies) of poster presentations after the 'Tutorials intro' (12H15). Be ready !



## Modified program

[illegible][illegible]

# SUMMER SCHOOL

## Time-dependent phenomena in magnetism

Keep in mind the rules :

Rule 0 : Interrupt the lecturer if something is not clear ! Don't hesitate to ask questions

Rule 1 : Learn as much as you can

Rule 2 : Feel free to discuss with the lecturers

Rule 3 : Switch off your cell phone

Rule 4 : Enjoy yourself in Târgoviște !

There is also a box for questions !!!