



## CALL FOR ABSTRACTS

The Joint European Magnetic Symposia are the most important and comprehensive conference on magnetism in Europe. JEMS2012 is the sixth edition of the event and will be held in Parma from **September 9<sup>th</sup> to September 14<sup>th</sup>, 2012**. Previous JEMS conferences took place in Grenoble (2001), Dresden (2004), San Sebastian (2006), Dublin (2008) and Krakow (2010). The Joint European Magnetic Symposia are closely linked with their school counterpart, the European School on Magnetism (<http://magnetism.eu/>).

The Symposia will focus on a broad range of topics embracing applicative and fundamental aspects of magnetism, as well as novel magnetic materials. The Magnetism community at large is invited to attend and submit its latest findings to JEMS2012. The conference program will consist of plenary and semi-plenary lectures, invited sessions, oral and poster contributions.

Up-to date information on all aspects of the conference can be found on the conference website at:

<http://www.jems2012.it/>

### Abstracts

Abstract submission will open on December 14, 2011 and **close on March 31, 2012**. This deadline will be strictly observed. All abstracts must be submitted via the link provided on the conference website at <http://www.jems2012.it/>. Abstracts should be submitted in **Microsoft Word or rtf format ONLY** and should not exceed 300 words. Before submitting your abstract please carefully read all the information contained in the abstract submission guidelines and prepare your abstract following the abstract template posted on the conference submission website. Authors will be informed of the status of their submission via email in mid May, 2012.

### Proceedings

The Proceedings of the Conference will be published in the European Physical Journal Web of Conferences. JEMS2012 scientific committee will also offer the opportunity to publish papers as a special issue of the European Physical Journal B (EPJB).

Please note that this opportunity will be offered:

- as an alternative to the publication of the proceedings in the European Physical Journal Web of Conferences
- only to a selected number of oral contributions

The deadline for manuscript (oral or poster presentations) submission is July 20, 2012. Instructions for manuscript preparation will be sent with the notification of abstract acceptance. Further information on the publication of the proceedings will be posted online on JEMS website.

### Registration and fees

Online early registration will be available from May 15, 2012 until July 10, 2012 at: <http://www.jems2012.it/>. After July 10, 2012, only late registration will be accepted at an extra charge.

Registration fees for regular, student and retired participants include: admission to all scientific sessions as well as to poster and technical exhibitions, congress materials (badge, delegate bag, final program and abstract book), proceedings, coffee breaks, welcome reception and VAT.

Registration fees for accompanying persons include: complimentary shopping bag, daily coffee breaks, welcome reception, Parma Half Day Tour, VAT.

Other excursions will be arranged and sold separately.

	<b>Early registration</b> <i>May 15 – July 10, 2012</i>	<b>Late registration</b> <i>from July 11, 2012</i>
<i>Regular participant</i>	500 Euro	600 Euro
<i>Student/retired</i>	300 Euro	400 Euro
<i>Accompanying persons</i>	130 Euro	130 Euro

<b>Student grants</b>	<p>The attendance of students is highly encouraged by the availability of reduced fees and cheaper accommodation. A limited number of grants is available to support the attendance of students working in magnetism and magnetic materials. Priority will be given to dissertation-stage doctoral candidates. Post-doctoral fellows and non-students are not eligible. Detailed information on how to apply will be published on the conference website after the announcement of abstract acceptance (mid May 2012).</p>
<b>Exhibits</b>	<p>During JEMS2012 there will be an area for the exhibition of relevant services, equipment, materials, software, technical journals and books. Individual and organisations interested in purchasing booth space should contact the Exhibition Coordinator, Mrs Giorgia Spiga at +39 0521 300100 ext. 161 or <a href="mailto:Jems2012@planningcongressi.com">Jems2012@planningcongressi.com</a>.</p>
<b>Conference site</b>	<p>The JEMS2012 conference will be held in the Municipal Conference Centre located in a strategic position a few steps away from Parma's city centre and train station (1.5 km). The Centre is easily reached by bus, taxi or on foot and is provided with ample parking space. A modern mall with cinemas, restaurants, café and shops extends just behind the Centre. The main city monuments, parks and attractions are all within walking distance.</p>
<b>Transportation and accommodation</b>	<p>Parma is located in northern Italy, halfway between Milano and Bologna in a strategic and very-well reachable position. Parma Airport "Giuseppe Verdi" (<a href="http://www.parma-airport.it">http://www.parma-airport.it</a>) is daily connected with Rome and with some Italian and European cities. The closest international airports to Parma are: Bologna (1.5 hours by car from Parma – about 100 km); Bergamo Orio al Serio (2.5 hours by car from Parma – 160 km); Milano Linate (2 hours by car from Parma – 120 km); Milano Malpensa (2.5 hours by car from Parma – 170 km); Verona (2 hours by car from Parma – 135 km). From each airport there is a shuttle bus to the local train station from where you will have a train connection to Parma.</p> <p>Parma is on the main railway connecting Milan to Bologna. Typically the journey takes approx. 90 min. from Milan and 60 min. from Bologna. For train connections and prices please check: <a href="http://www.trenitalia.com">www.trenitalia.com</a>.</p> <p>Parma offers a wide range of hotels of all price categories. JEMS2012 offers a hotel booking service that will be available on the conference website by March 2012.</p>
<b>Visa requirements</b>	<p>A valid passport or an identity card (accepted only for certain European Countries) is required for everyone wishing to enter Italy. The visa requirement depends on the home Country of citizenship. Foreign participants are urged to contact the Italian Embassy or Consulate in their home country as soon as possible to determine their particular visa requirement and to apply well in advance of their departure dates. If you need a personal letter of invitation to attend the conference, please contact the Organizing Secretariat, Mrs Michela Gorgoglione (<a href="mailto:Jems2012@planningcongressi.com">Jems2012@planningcongressi.com</a>) at least three months in advance. Please note that this letter does NOT involve any commitment by the Congress Organisers to cover fees, accommodation, travel expenses or other costs connected to the participation in the Congress. Planning Congress will not be held responsible for visas not granted.</p>

#### IMPORTANT DATES AND DEADLINES

December 14, 2011	Abstract submission opens
March 31, 2012	Abstract submission closes
May 15, 2012	Abstract acceptance/rejection notice
May 15, 2012	Early registration opens
July 10, 2012	Early registration closes
July 20, 2012	Manuscript submission closes
September 9, 2012	Conference begins

#### VENUE

Auditorium Paganini & Congressi  
 Parma Municipality Congress  
 Centre  
 via Toscana, 5/A  
 43122 Parma, Italy

## **SYMPOSIA AND SYMPOSIA ORGANISERS**

### **Magneto-transport, spin electronics and magnonic crystals**

Susana Cardoso, *INESC-MN, Lisbon, Portugal*  
José María De Teresa, *ICMA, CSIC-Universidad de Zaragoza, Spain*  
Alessandra Continenza, *University of L'Aquila, Italy*  
Fabio Miletto Granozio, *University of Naples "Federico II", Italy*

### **Magnetic memories and magnetic recording**

Olle Heinonen, *Argonne National Laboratory, IL, USA*  
Elisabetta Agostinelli, *ISM-CNR, Rome, Italy*

### **Organic & Carbon based spintronics**

Bert Koopmans, *Eindhoven University of Technology, Netherlands*  
Valentin Alek Dediu, *ISMN-CNR, Bologna, Italy*

### **Micromagnetics, magnetization processes and magnetization dynamics**

Thomas Schrefl, *St. Pölten University of Applied Sciences, Austria*  
Claudio Serpico, *University of Naples "Federico II", Italy*

### **Electronic structure and correlation effects in magnetic systems**

Eva Pavarini, *IAS/PGI, Forschungszentrum Jülich, Jülich, Germany*  
Alessio Filippetti, *CNR-IOM, Cagliari, Italy*

### **Magnetic materials for energy applications (permanent magnets, magnetocalorics...)**

Oliver Gutfleisch, *IFW, Dresden, Germany*  
Simone Fabbrici, *IMEM-CNR, Parma, Italy*

### **Molecular magnetism**

Richard Winpenny, *University of Manchester, UK*  
Stefano Carretta, *University of Parma, Italy*

### **Soft magnetic materials and related applications**

Frederic Mazaleyrat, *ENS, Cachan, France*  
Marco Coisson, *INRIM, Turin, Italy*

### **Magnetism in metals, alloys and intermetallics**

Zdenek Arnold, *Institute of Physics ASCR, Prague, Czech Republic*  
Pedro A. Algarabel Lafuente, *ICMA-CSIC, Universidad de Zaragoza, Spain*

### **Magnetic shape memory, magnetoelastic and multifunctional materials**

Volodymyr Chernenko, *Universidad del Pais Vasco UPV/EHU, Bilbao, Spain*  
Luciano Lanotte, *University of Naples "Federico II", Italy*

### **Diluted Magnetic semiconductors**

Tomasz Dietl, *University of Warsaw, Poland*  
Paola De Padova, *ISM-CNR, Rome, Italy*

### **Magnetic nanostructures, surfaces and interfaces**

Chris Binns, *University of Leicester, UK*  
Pietro Gambardella, *Catalan Inst. of Nanotechnology (ICN-CSIC), Spain*

Paolo Allia, *Polytechnic of Turin, Italy*  
Lorenzo Mattera, *University of Genoa, Italy*

### **Spin excitations and ultrafast dynamics**

Markus Münzenberg, *I. Physikalisches Institut, Göttingen, Germany*  
Giovanni Carlotti, *University of Perugia, Italy*

### **Biomagnetism**

Olga Mykhaylyk, *Technische Universität München, Germany*  
Alessandro Lascialfari, *University of Milan, Italy*

### **Sensors, MEMS and magnetic devices**

Orphee Cugat, *Domaine Universitaire de St Martin d'Hères/Gières, France*  
Riccardo Bertacco, *Politecnico di Milano, LNESS, Italy*

### **Disordered and frustrated magnetic systems**

Philippe Mendels, *University of Paris 11, CNRS, Orsay, France*  
Pietro Carretta, *University of Pavia, Italy*

### **Magnetism and superconductivity**

Christian Bernhard, *University of Fribourg, Switzerland*  
Samuele Sanna, *University of Pavia, Italy*

### **Perovskites and multiferroics**

Claude Ederer, *ETH Zürich, Switzerland*  
Alessandro Bombardi, *Diamond Light Source Ltd, Didcot, UK*

### **Advanced experimental techniques for magnetic materials**

Hendrik Ohldag, *SLAC National Accelerator Laboratory, Menlo Park, CA USA*  
Claudia Dallera, *Polytechnic of Milan, Italy*

## **PLENARY SPEAKERS**

Agnès Barthélémy, *Unité Mixte de Physique CNRS/Thales, Palaiseau, France*  
Francisco Guinea, *Instituto de Ciencia de Materiales de Madrid, Spain*  
Kazuhiro Hono, *NIMS, Japan*  
Stuart Parkin, *IBM-Stanford Spintronics Science and App. Center, San Jose, CA, USA*  
Roberta Sessoli, *University of Florence, Italy*

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Mehmet Acet, *Universität Duisburg-Essen, Germany*  
Carlo Carbone, *ISM-CNR, Trieste, Italy*  
Hermann A. Dürr, *SLAC National Accelerator Laboratory, Menlo, CA, USA*  
Josep Fontcuberta, *Inst. de Ciència de Materials de Barcelona-CSIC, Spain*  
Riccardo Hertel, *IPCMS – DMONS, Strasbourg, France*  
Amit Keren, *Physics Department Technion, Haifa, Israel*  
Kevin O'Grady, *University of York, UK*  
Silvia Picozzi, *CNR-SPIN L'Aquila, Italy*  
Eiji Saitoh, *Tohoku University, Japan*  
Herre van der Zant, *Delft University of Technology, Netherlands*

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Rosella Magno, Nicoletta Marigo, Antonietta Secondulfo

For scientific information, please contact:

### SCIENTIFIC SECRETARIAT

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For information on: abstract submission, registration, hotel accommodation, exhibitors and social programme please contact the Organizing Secretariat:

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