



IEEE

Madrid - Spain
May 4th - 8th, 2008

International Magnetism Conference

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Message from the Chair

The International Magnetism Conference, “**Intermag Europe 2008**”, will be held from Sunday, May 4, until Thursday, May 8, at the Palacio Municipal de Congresos in Madrid, Spain. Intermag is the premier conference on Applied Magnetism and related technologies. Members of the international scientific and engineering communities interested in recent developments in these topics are kindly invited to attend the Conference and contribute to its technical sessions. We are planning an exciting and informative set of symposia, tutorial sessions and invited talks as well as regular oral and poster presentations and technical exhibitions reviewing the latest developments in these fields. In addition, I hope also you will enjoy visiting Madrid and appreciate our Spanish culture.

We are now soliciting contributed papers in all areas of Magnetism and related technologies indicated in the category list, below.

On behalf of the Management Committee of Intermag Europe 2008, I look forward to seeing you in Madrid.

Sincerely,

Manuel Vazquez

General Chairman



INTERMAG 08



Contact address: INTERMAG2008@icmm.csic.es

www.intermagconference.com/intermag2008



LOCATION

The "Intermag Europe 2008" will be held at the **Palacio Municipal de Congresos**, located in the "Campo de las Naciones".

DIGEST SUBMISSION

- Digest submission is already **open** since **November 19, 2007**.
- The **firm deadline** for digest submission is **January 4, 2008**. This deadline will be strictly observed.
- All digests must be submitted via the web **ONLY** at: <http://intermag.abstractcentral.com/>. Digests sent via e-mail, fax or regular mail will not be processed nor acknowledged.
- Digests should be in the form of a two (2) page summary. More details about the format are posted on the conference web site: <http://intermag.abstractcentral.com/>
- Digests acceptances will be announced via e-mail. Authors will be informed of the status of their submission by February 4, 2008

REGISTRATION

- **Advance registration will open on January 15, 2008**
- Registration fees will be significantly lower for IEEE members. Prospective attendees are encouraged to join IEEE and the Magnetism Society at <http://www.ieee.org/web/membership/join/join.html>

PUBLICATION

If your digest is accepted for presentation at Intermag, you may contribute a paper for publication in the special October 2008 Intermag issue of **IEEE Transactions on Magnetism**. The maximum paper length is FOUR (4) journal pages for contributed papers and SEVEN (7) journal pages for invited papers. Note that the number of pages allowed has been increased with regard to previous Intermag Conferences. The **deadline** for manuscript submission is **March 3, 2008**. Post-deadline manuscripts will not be accepted nor forwarded for review.

The review standards will mirror those used for regular articles in IEEE Transactions on Magnetism. Participation in the conference does not guarantee that a paper will be accepted for publication. Additionally, one of the paper co-authors must present the paper at the conference in order for it to be considered for publication.

Because of the time constraints, there will be no second round of reviews for papers that are initially rejected. In addition to two peer reviews per paper, the manuscripts will be ranked by the Intermag editors. In order not to exceed the Intermag page budget, some papers with two mildly positive reviews may be rejected. It is estimated that only two thirds of the submitted papers will be accepted for publication.

All manuscripts will be submitted via the IEEE web submission system, **Manuscript Central**. Instructions for submission and accepted formats for the journal as well as a link to Manuscript Central is available at <http://intermag.abstractcentral.com/>. All papers being published in the special issue of the IEEE Transactions on Magnetism must be submitted this way. No hard paper manuscripts will be accepted. Reviewing and revisions will all be handled through the online system.

PRESENTATIONS

Contributed papers accepted for the Conference will be presented either orally or as posters. Oral presentations will be in the conventional format of a twelve-minute talk by a registered author using a LCD projector, followed by a three-minute discussion period. Presenting authors should bring their own PC, and are also advised to bring a USB flash memory as backup. For poster presentations, clear descriptive visual material should be arranged within the designated board size. The author must be present to provide details and answer questions during the poster session.

Authors are requested to indicate their preference for oral or poster presentations in the field provided in the electronic digest. The Program Committee will make the final decision on the assignment of papers to the sessions and on the presentation format for each session. In the e-mail notice of acceptance, authors will be notified of the type of session for their presentation. Detailed rules and instructions for an effective presentation will be available on the conference web site.

STUDENT TRAVEL GRANTS

The IEEE Magnetic Society will award travel grants of up to \$1000 each to a limited number of students working in basic and applied magnetism. These grants are intended to partially offset travel costs to attend Intermag 2008. Support is for current graduate students only, including Ph.D. candidates and those students in Masters only programs. Postdoctoral fellows, undergraduates or non-students are not eligible. Preference will be given to students who are student members of the Magnetism Society, who are nearing completion of their graduate studies and presenting conference papers. The students' advisors must be members of the Magnetism Society. Students who have previously received travel support from the Magnetism Society are not eligible. Shortly after the conference grant recipients must submit a short account of their experience for possible inclusion in the Magnetism Society Newsletter. To apply, forms and instructions will be available at: www.intermagconference.com/intermag2008. The student's advisor must write a brief letter of endorsement for the student. Another letter of endorsement from a full Member of the Magnetism Society is also required. Applications and all letters of endorsement must be submitted before March 1, 2008. Inquiries should be sent to the Student Travel Grant Co- Coordinators: M. J. Carey, Hitachi GST, San Jose, CA (matthew.carey@hitachigst.com). Visit the Magnetism Society web site at: www.ieeemagnetics.org

STUDENT BEST PRESENTATION AWARD

A new award is being offered by the IEEE Magnetism Society at this Intermag Conference to encourage the presentation of papers in the conference by students. Graduate students who are full time students at the time of the conference who are the presenting authors of either poster or oral contributions can apply. Preference will be given to students who are within one year of graduation and who are members of the Magnetism Society or whose advisors are members. Students should apply at the same time that abstracts are submitted by checking the box on the application page on the abstract submission web site, and include applicable IEEE membership numbers. Also a letter of support from the student's advisor is required, and should accompany the submitted abstract. The choice of finalists will be announced at the same time as the acceptance of abstracts. The winner will be selected at the conference by the Student Best Presentation subcommittee, and announced soon after the close of the conference. The award consists of a fellowship of \$1500 and certificate for the winner, and \$250 and certificate for the remaining finalists.

PROGRAM TIMETABLE

In order for participants to make their travel arrangements, it should be noted that the Scientific Program is planned to start in the evening of May 4 with a tutorial session and that it will end in the evening of May 8.

VISA REQUIREMENTS

EU citizens only need their national identity card or passport. Citizens of United States, Australia, Canada, Japan, Korea and Singapore do not need a visa to visit Spain for a stay of up to 90 days.

Citizens from other countries are urged to contact their local Spanish Embassy or Consulate for details regarding visa applications. Additional information is available at: www.mae.es/en/WebembajadasConsulados/ (Spanish Embassies and Consulates in the world).

ACCOMMODATION

There is a wide range of accommodation in Madrid with over 57,500 hotel beds in 2006. The quality of accommodation in Madrid has received national and international recognition. For those who prefer to stay in a hotel in the downtown area, it should be noted that it takes between 20 to 40 minutes by underground to get to the conference center. Details regarding hotel reservations are already available at the conference web site. Hotel reservation may be made via Internet or by fax to Siasa Congresos, S.A. Att. Sylvia Ureta, Fax 34-914581088.

EXHIBITS AND PROMOTIONAL OPPORTUNITIES

The exhibition will take place in the multi-purpose hall located over Auditorium A, in the Palacio Municipal de Congresos de Madrid. This hall will contain the Exhibition, Posters Area and catering service for morning coffee and afternoon Bierstube. The informal atmosphere will facilitate interaction between exhibitors and participants. Individuals and organizations who are interested in reserving one or more booths should contact Conference Exhibits and Industrial Coordinators M. San Román at Marta_SanRoman@irco.com and M. Diaz-Michelena at diazma@inta.es or M. del Portillo, Exhibits Coordinator at SIASA at: mportillo@siasa.es; Fax: 0034-914581088. Latest information about the exhibition and the conference is also available at: <http://www.intermagconference.com>

TECHNICAL SUBJECT CATEGORIES

MAGNETIC RECORDING

- 1a. Perpendicular media
- 1b. Longitudinal and particulate recording media
- 1c. Patterned media
- 1d. Inductive recording heads and materials
- 1e. MR-based heads (including GMR, spin-valves, MTJ, CPP)
- 1f. Recording physics, models and theory
- 1g. Head-media interface and tribology
- 1h. Recording systems, coding, servo, and channels
- 1i. Magneto-optic, hybrid, and novel recording

SPIN ELECTRONICS AND APPLICATIONS (Non-Recording)

- 2a. GMR of multilayers, magnetic contacts, and constrictions
- 2b. Magnetic tunnel junctions
- 2c. Current induced switching
- 2d. Magnetoresistive oxides and semi-metallic materials
- 2e. Magnetic semiconductors
- 2f. Transport theory and spin injection
- 2g. MRAM
- 2h. Magneto-couplers, logic and other magnetoelectronic devices
- 2i. Spin torque oscillators

SOFT MAGNETIC MATERIALS AND APPLICATIONS

- 3a. Crystalline, nanocrystalline, and amorphous materials
- 3b. Ferrites, magnetic oxides and other materials
- 3c. Magneto-dielectric materials or meta-materials
- 3d. Applications

PERMANENT MAGNET MATERIALS AND APPLICATIONS

- 4a. Intermetallic and other hard magnets
- 4b. Nanostructured hard magnetic materials
- 4c. Rare earth transition metal borides
- 4d. Hard magnets processing
- 4e. Applications

MAGNETIC THIN FILMS AND NANOSTRUCTURES

- 5a. Ultra-thin films and surface effects
- 5b. Multilayer films and superlattices
- 5c. Patterned films and elements
- 5d. Magnetic clusters and nanoparticles
- 5e. Exchange bias
- 5f. Fast switching of films and nanostructures

OTHER MAGNETIC MATERIALS AND NON-RECORDING APPLICATIONS

- 6a. Microwave materials and devices
- 6b. Magneto-optic materials and devices
- 6c. Magneto-elastic materials and devices
- 6d. Molecular and novel magnetic materials

MODELING AND COMPUTATIONAL MAGNETISM

- 7a. Ab-initio and first-principles calculations
- 7b. Micromagnetics
- 7c. Hysteresis modeling

CHARACTERIZATION AND IMAGING

- 8a. Magnetic and structural measurements and instrumentation
- 8b. Magnetic microscopy and imaging

SENSOR, HIGH FREQUENCY, AND POWER DEVICES

- 9a. Magnetic sensors (other than for recording)
- 9b. Microwave and millimeter wave devices
- 9c. Magnetoimpedance and high frequency properties
- 9d. Electromagnetic compatibility
- 9e. Transformers and inductors
- 9f. MEMS
- 9g. Motors and actuators
- 9h. Power and control magnetics
- 9i. Magnetic fluids and separation
- 9j. Shielding, levitation, and propulsion
- 9k. Magnetodynamics and ferromagnetic resonance

LIFE SCIENCES AND APPLICATIONS

- 10a. Bio and chemical magnetism
- 10b. Measurement techniques and instrumentation
- 10c. Magnetic field effects

PHYSICS AND INTERDISCIPLINARY TOPICS

- 11a. Fundamental properties with relevance to applications
- 11b. Miscellaneous

IMPORTANT DATES

November 19, 2007	Digest submission open
November 22, 2007	Final Call for Papers
January 4, 2008	Digest submission closed
January 15, 2008	Advance registration open
February 4, 2008	Acceptance/rejection notices
March 3, 2008	Manuscript submission deadline
March 27, 2008	Hotel Reservation deadline
March 31, 2008	Advance Registration closed