



Vancouver Convention Centre, Vancouver, BC, Canada

Conference Chair

Jan-Ulrich Thiele
Seagate Technology
jan-ulrich.thiele@seagate.com

Conference Management

Diane Melton
Widerkehr & Associates
Intermag2012@widerkehr.com

Conference Treasurer

Petru Andrei
Florida State University
pandrei@eng.fsu.edu

Program Co-Chairs

Pallavi Dhagat
Oregon State University
dhagat@eecs.oregonstate.edu

Claudia Felser
Johannes Gutenberg University
Mainz
felser@uni-mainz.de

Jian Shen
Fudan University
shenj5494@fudan.edu.cn

Publications Chair

Tom Thomson
University of Manchester
thomas.thomson@manchester.ac.uk

Publicity Chair

Erol Girt
Simon Fraser University
erol_girt@sfu.ca

Exhibits Chair & Coordinator

Kaizhong Gao
Seagate Technology
kaizhong.gao@seagate.com

Wendy Walker
Widerkehr & Associates
wendyw@widerkehr.com

Student Support

Matt Carey
Hitachi Global Storage Technologies
matt.carey@hitachigst.com

Student Awards

Mingzhong Wu
Colorado State University, Ft. Collins
mwu@lamar.colostate.edu

IEEE Representative

Massimo Pasquale
INRIM Torino
pasquale@inrim.it

2nd Call for Papers

Dear Colleagues,

It is my honor to invite you to the International Magnetics Conference, INTERMAG 2012, which will be held in Vancouver from May 7th to May 11th, 2012.

INTERMAG is the premier conference on all aspects of applied magnetism, and all members of the international scientific communities interested in new developments in magnetism and associated technologies are invited to attend and submit their latest findings to INTERMAG 2012. The conference will provide a range of oral and poster presentations, invited talks and symposia, a tutorial session, and exhibits reviewing the latest developments in magnetism. Selected papers from the conference will be published in the IEEE Transactions on Magnetics.

We would like to cordially invite you to attend the conference, actively participate in its technical sessions, and contribute to the continued success of this conference series. Up-to-date information on all aspects of the conference can be found on the conference webpage at <http://intermagconference.com/2012/>.

Vancouver, the site of this year's conference, is well known for its majestic natural beauty, as it is nestled between the Coast Mountains and the Pacific Ocean. It is frequently ranked as one of the "best cities to live in" and is certainly a beautiful destination to visit. The Convention Center is located right in Downtown Vancouver, and the four hotels in which blocks of sleeping rooms at special Intermag rates are available are located within a short walking distance from the Convention Center. The Downtown area holds many of the city's attractions and is home to beautiful architecture, fine dining and world class shopping. For the many things to see and to do in and around Vancouver, please visit the official webpage of the tourism office, www.tourismvancouver.com.

On behalf of the Management Committee of Intermag 2012, I look forward to seeing you in Vancouver and to an exciting and enjoyable conference.

Sincerely,

Jan-Ulrich Thiele

General Chair of Intermag 2012



Call for Proposals for Invited Presentations and Symposia

One of the most important aspects of any InterMag Conference are the Invited Presentations and Symposia. We are currently soliciting proposals from the Magnetics Community at large, please submit your proposals online at <http://intermag.abstractcentral.com/>. The deadline for proposal submission is November 22, 2011.

Digest Submission

Digest submission will open on November 14, 2011. The deadline for digest submission is January 9, 2012. This deadline will be strictly observed. All digests must be submitted via the link provided on the conference webpage at <http://intermagconference.com/2012/>. Digests sent via e-mail or regular mail will not be processed or acknowledged. Digests should be in the form of a two (2) page summary. More details about the format are posted on the conference submission web site at: <http://intermagconference.com/2012/>. Authors will be informed of the status of their submission via email in early February 2012.

Presentation

Contributed papers accepted for the Conference will be presented either orally or by poster. Authors are requested to indicate their preference for giving an oral or poster presentation on the electronic submission form. The Program Committee will make the final decision on the assignment of papers to sessions and 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. They will also receive a URL providing detailed guidelines and instructions for effective presentation.

Oral presentations will be in the conventional format of a 12-minute talk by the registered author using an LCD projector, followed by a 3-minute discussion period. NOTE: ONLY LCD projectors will be provided. Authors are expected to bring their presentation on their own laptop computers along with a backup copy on a USB drive in case of laptop failure. All oral talks will be presented in this manner - NO OTHER PRESENTATION FORMAT IS AVAILABLE.

Poster presentations will consist of well-prepared visual materials about the work posted on a designated board, with the author available to present details and answer questions during the selected poster sessions. Simply posting a hard copy of the paper is inappropriate and

will be marked as a NO SHOW. The dimensions of the poster boards are 6 feet (1.8 m) wide and 4 feet (1.2 m) high.

Registration

Online advance registration will be available from January 9, 2012 until April 9, 2012 at <http://intermagconference.com/2012/>. Registration fees will not include any meals/meal service.

Publication

If your digest is accepted for presentation at InterMag, you may contribute a paper for publication in the special InterMag issue of IEEE Transactions on Magnetics. 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 compared with InterMag Conferences of the past. The deadline for manuscript submission is March 2, 2012. Post-deadline manuscripts will not be accepted or forwarded for review. The review standards will mirror those used for regular articles to be published in IEEE Transactions on Magnetics. Note that participation in the conference does not guarantee that a paper will be accepted for publication. Additionally, at least one of the paper co-authors must present their 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 rejected at the initial stage. All the papers will have two peer reviews, and the final decision on the publication of the manuscripts will be made by the InterMag editors.

Student Travel

The IEEE Magnetic Society will award travel grants of up to \$1,000 each to a limited number of students in the areas of basic and applied magnetism. These grants are intended to partially offset travel costs for their participation in the INTERMAG 2012. Financial support is only for current graduate students. Postdoctoral fellows, undergraduates or non-students are not eligible.

The student's advisor must be a member of the IEEE Magnetics Society. Preference will be given to those applicants who are student members of the Magnetics Society, nearing completion of their graduate studies and presenting conference papers. Students who have previously received travel support from the Magnetics Society for any other conference are not eligible. The application web site will open soon after the announcement of accepted abstracts. Application forms



and instructions for all travel grants will be posted online at <http://intermagconference.com/2012/> under “Students → Travel”, after the announcement of digest acceptance in early February, 2012.

The deadline for submitting applications and letters of endorsement is February 24, 2012. Incomplete or late applications and endorsement letters will not be considered. Applicants will be notified of the committee’s decision in April, 2012.

Students Best Presentation Awards

A competition will be held during the conference for the IEEE Magnetics Society Student Best Presentation Award, which recognizes and encourages excellence in graduate studies of magnetism. Full-time graduate students who will be the presenting author of either poster or oral contributions may apply. Note that supplementary information is required to describe the motivation for the research, significance of the research results and the applicant’s contribution to the work being presented. A brief letter of support from the student’s advisor is also required, and should be submitted along with the digest. Up to five (5) finalists will be selected based on accepted digests and the supplementary information. Only the finalists will receive notification from the selection committee. The winner will be selected at the conference by the Student Best Presentation Award subcommittee, and announced soon after the close of the conference. The award consists of a fellowship of \$1500 and certificate for the winner, and a \$250 fellowship and certificate for the remaining finalists.

Exhibits

Exhibits of related services, equipment, materials, software, technical journals and books will be held as a part of the 2012 INTERMAG Conference. Individuals and organizations interested in purchasing booth space should contact the Exhibits Coordinator, Wendy Walker at wendyw@widerkehr.com. The Exhibitor Prospectus will be available on the web site in November 2011.

Visa

All applications for Canadian visas are approved by the Citizenship and Immigration Canada (CIC) bureau. We advise all scientists traveling to Canada to check their visa requirements and apply for a visa as early as possible. For more detailed information see the CIC webpage <http://www.cic.gc.ca/english/visit/index.asp>. It

is advised that you check with your local Canadian consulate or embassy as soon as possible to find out what the earliest date is that you can apply for a visa and to schedule an appointment.

For special assistance, e.g., invitation letters, please contact the conference manager, Diane Melton at Intermag2012@widerkehr.com. Please note, per default we will be sending you a pdf file of the invitation letter with a scanned signature via email. Please indicate if you will require the original to be sent to you by mail.

Categories

- 1. Spin electronics & applications (non-recording)**
 - a. GMR of multilayers, magnetic contacts and constrictions
 - b. Magnetic Tunnel Junctions
 - c. Spin transfer torque
 - d. Magnetoresistive & half-metallic materials
 - e. Complex oxides
 - f. Multiferroic Materials
 - g. Magnetic semiconductors
 - h. Transport theory and spin injection
 - i. MRAM, Magnetic Logic and Devices
 - j. Organic and Carbon-based Spin Transport
- 2. Magnetic recording**
 - a. Recording Media
 - b. Patterned Media
 - c. Recording heads and materials (GMR, spin-valves, MTJ, inductive heads etc.)
 - d. Recording physics, modeling, theory and testing
 - e. Head-disk interface and tribology
 - f. Recording systems, coding, servo, actuators and channels
 - g. Energy assisted recording
 - h. Magneto-optic, hybrid and novel recording
- 3. Life sciences & applications**
 - a. Bio & chemical magnetism
 - b. Biomedical diagnostics and imaging
 - c. Novel biomedical therapies and nanomedicine
 - d. Measurement techniques and instrumentation
- 4. Sensors, high frequency & power devices**
 - a. Magnetic sensors and MEMS (non-recording)
 - b. Magnetoimpedance & high frequency materials
 - c. Electromagnetic compatibility
 - d. Transformers and inductors
 - e. Motors and actuators
 - f. Power and control magnetics
 - g. Shielding, levitation and propulsion
 - h. Magnetodynamics and ferromagnetic resonance
- 5. Magnetic thin films & nanostructures**
 - a. Ultra-thin films & surface effects



- b. Multilayer films and superlattices
- c. Patterned films and elements (non-recording)
- d. Magnetic nanowires, clusters & nanoparticles
- e. Exchange bias
- 6. Functional magnetic materials & non-recording applications**
 - a. Microwave and millimeter wave materials & devices
 - b. Magneto-optic materials and devices
 - c. Magneto-elastic materials and devices
 - d. Magneto-caloric materials and devices
 - e. Molecular & novel magnetic materials
 - f. Magnetic fluids and separation
- 7. Soft magnetic materials & applications**
 - a. Crystalline, nanocrystalline & amorphous materials
 - b. Ferrites, Garnets and other materials
 - c. Magneto-dielectric materials or meta-materials
 - d. Applications
- 8. Permanent magnet materials & applications**
 - a. Intermetallic & other hard magnets
 - b. Nanostructured and composite hard magnetic materials
 - c. Rare earth transition metal borides
 - d. Applications
- 9. Modeling and computational magnetism**
 - a. Ab-initio and first principles calculations
 - b. Micromagnetics and multiscale modeling
 - c. Hysteresis modeling
- 10. Fundamental properties & interdisciplinary topics**
 - a. Fundamental properties with relevance to applications
 - b. Superconductivity
 - c. Emerging topics
- 11. Microscopy, Imaging & Characterization**
 - a. Magnetic and structural measurements & instrumentation
 - b. Magnetic microscopy and imaging
 - c. Magnetization Dynamics
 - d. Synchrotron Studies

Important Dates

Deadline for Invited & Symposia:	November 22 2011
Digest submission opens:	November 14, 2011
Digest submission closes:	January 9, 2012
Acceptance/Rejection notices:	February 6, 2012
Student travel application deadline:	February 24, 2012
Manuscripts submission deadline:	March 2, 2012
Advance registration opens:	January 9, 2012
Advance registration closes:	April 9, 2012
Hotel reservation deadline:	April 9, 2012



Conference Chair

Jan-Ulrich Thiele
Seagate Technology
jan-ulrich.thiele@seagate.com

Conference Management

Diane S. Melton
Widerkehr & Associates
19803 Laurel Valley Place
Montgomery Village, MD 20886
Telephone: 301-527-0900, x-5
Intermag2012@widerkehr.com

Conference Treasurer

Petru Andrei
Florida State University
pandrei@eng.fsu.edu

Program Co-Chairs

Pallavi Dhagat
Oregon State University
dhagat@eecs.oregonstate.edu

Claudia Felser
Johannes Gutenberg University
Mainz
felser@uni-mainz.de

Jian Shen
Fudan University
shenj5494@fudan.edu.cn

Publications Chair

Tom Thomson
University of Manchester
thomas.thomson@manchester.ac.uk

Publicity Chair

Erol Girt
Simon Fraser University
erol_girt@sfu.ca

Exhibits Chair & Coordinator

Kaizhong Gao
Seagate Technology
kaizhong.gao@seagate.com

Wendy Walker
Widerkehr & Associates
wendyw@widerkehr.com

Student Support

Matt Carey
Hitachi Global Storage
Technologies
matt.carey@hitachigst.com

IEEE Representative

Massimo Pasquale
INRIM Torino
pasquale@inrim.it

Dear Colleagues,

We would like to invite you to submit your nominations for Invited Speakers and Symposia for INTERMAG 2012 to be held in Vancouver, Canada, May 7-11, 2012.

Symposia and invited talks are among the most important aspects of this Conference. We encourage proposals on new and diverse topics, and broad participation involving international presenters. To help plan a strong and engaging technical program, we recommend that you provide a concise description of your nominee's work highlighting:

- the novelty of the work,
- the relevance/importance of the results, and
- her/his ability to speak well.

Please note the topic categories listed at the bottom of this letter to help with your nominations.

Past experience indicates that proposals will be more persuasive if the proposed speakers are not your close colleagues or collaborators. To avoid multiple submissions on the same symposium topic or invited talk, we request that you *cosponsor* a topic with colleagues who are also likely to propose the same topic or have similar interests.

To make a nomination for Invited Speakers or Symposia, please follow these steps:

1. Go to <http://intermag.abstractcentral.com/>
2. Create an account (or, if you still have one from digest submission for a previous INTERMAG conference, use that account).
3. Choose the Submission tab (top right), select Single Speaker and/or Symposium Nomination Center as appropriate.
4. Click the "Create New Submission" link, complete and submit your nomination. Be sure to discuss the novelty and relevance of the work, and the speaker's ability to communicate well.

The nomination site for invited speakers and symposia will close on November 22, 2011. We strongly recommend that you **contact the potential speakers for invited talks and symposia prior to making a nomination.**

In addition, we welcome suggestions for town hall meetings or evening symposia that may be engaging to the broader audience. Please do not hesitate to contact any of the Program Chairs with your suggestions.

Thank you for helping us plan an exciting program for INTERMAG 2012. We look forward to seeing you in Vancouver.

With best regards,

Claudia Felser
Johannes Gutenberg University
felser@uni-mainz.de

Pallavi Dhagat
Oregon State University
dhagat@eecs.oregonstate.edu

Jian Shen
Fudan University
shenj5494@fudan.edu.cn