

Topical Group on Magnetism and its Applications

<http://units.aps.org/units/gmag/>

Note From the Chair

*Greetings from GMAG! We have already begun planning the magnetism portion of the 2012 APS March Meeting, which will be held in Boston, Massachusetts from February 27 to March 2, 2012. This newsletter explains how you can be involved in planning this meeting, including suggesting invited speakers in focus topic sessions (there are eight magnetism related focus topics sessions planned) and symposium proposals (GMAG sponsors up to five symposia). Note that the deadline for these suggestions is **September 6, 2011**. We also encourage nominations for new candidates for the GMAG executive council (by **August 4, 2011**), Ph.D. student Dissertation Awards, student travel awards and magnetism related outreach activities. Further information and all the deadlines for these and other opportunities to assist GMAG are given in the following pages of this newsletter.*



We always welcome suggestions for new activities and programs you would like to see GMAG initiate. Please feel free to contact me or any member of the GMAG executive committee with your ideas. I encourage you to actively participate in planning the March Meeting and in GMAG's activities.

—Andrew Kent, GMAG Chair

March Meeting Program

Paul Crowell (crowell@physics.umn.edu), the Chair-Elect of GMAG, is the Program Chair for the 2012 March Meeting in Boston, Massachusetts. He is coordinating the organization of both GMAG sponsored (or co-sponsored) Focus Topics and the GMAG invited symposia. Note that suggestions of invited speakers for focus topics and symposia are welcome before the deadline of **September 6, 2011**. The deadline for submission of meeting abstracts is **November 11, 2011**.

Focus Topics-Nominations for invited speakers

For the 2012 meeting, GMAG is co-sponsoring eight focus topics. Each focus topic consists of multiple sessions of contributed talks based on a common theme. Each session can also include one invited talk. Suggestions for invited speakers are welcome and should be sent by email to one of the organizers of the focus topic (see below) or submitted by the APS website before **September 6, 2011**. The link for submitting speaker suggestions will be posted on the GMAG website (<http://www.aps.org/units/gmag/>) sometime in early August. Contributed talks relating to a focus topic should be submitted under the focus topic sorting category (number given below). The GMAG focus topics (co-sponsoring units are shown in parentheses) for 2012 are listed below, and the detailed descriptions appear on the following pages.

06.11 Magnetic Nanostructures: Materials and Phenomena (DMP/GMAG) – Organized by: Axel Enders, University of Nebraska (aenders2@unlnotes.unl.edu), Sam Jiang, Argonne National Lab (jiang@anl.gov), and Hao Zeng, University of Buffalo (haozeng@buffalo.edu)

06.12 Emergent Properties in Bulk Complex Oxides (DMP/GMAG) – Organized by: Despina Louca, University of Virginia (dl4f@virginia.edu), Tanusri Saha-Dasgupta, S.N. Bose National Centre (tanusri@bose.res.in), and Patrick Woodward, Ohio State University (woodward@chemistry.ohio-state.edu)

06.13 Magnetic Oxide Thin Films and Heterostructures (DMP/GMAG) – Organized by: Alex de Lozanne, University of Texas (delozanne@physics.utexas.edu), Susanne Stemmer, UCSB (stemmer@mrl.ucsb.edu), and Suzanne te Velthuis, Argonne National Lab (tevelthuis@anl.gov)

06.14 Spin Transport & Magnetization Dynamics in Metal Based Systems (GMAG/DMP/FIAP) – Organized by: Dafine Ravelosona, IEF, Orsay, France (dafine.ravelosona@upsud.fr), Jonathan Sun, IBM Research (jonsun@us.ibm.com), and Shufeng Zhang, University of Arizona (zhangs@physics.arizona.edu)

06.15 Spin Dependent Phenomena in Semiconductors (GMAG/ DMP/ FIAP) – Organized by: Jean Heremans, Virginia Tech (heremans@vt.edu), Paul Koenraad, Technical University of Eindhoven (P.M.Koenraad@tue.nl), and Giovanni Vignale, University of Missouri (vignaleg@missouri.edu)

06.16 Frustrated Magnetism (GMAG/ DMP) – Organized by: Bruce Gaulin, McMaster (gaulin@physics.mcmaster.ca), Art Ramirez, UC Santa Cruz (apr@soe.ucsc.edu), and Oleg Tchernyshyov, Johns Hopkins (olegt@jhu.edu).

06.17 Spin Dependent Physics in Carbon Based Materials (GMAG/ DMP) – Organized by: Roland Kawakami, UC Riverside (roland.kawakami@ucr.edu), Bert Koopmans, Technical University of Eindhoven (b.koopmans@tue.nl), and Jagadeesh Moodera, MIT (moodera@mit.edu)

06.18 Low-Dimensional and Molecular Magnetism (GMAG/DMP) – Organized by: Enrique del Barco, University of Central Florida (delbarco@physics.ucf.edu), Jürgen Schnack, Bielefeld University (jschnack@uni-bielefeld.de), and Vivien Zapf, Los Alamos National Lab (vzapf@lanl.gov).

Nominations for GMAG Symposia

GMAG may sponsor up to five invited symposia at the March Meeting. GMAG members are encouraged to recommend topics for these symposia, each of which includes five speakers. Please send nominations to the GMAG program chair, Paul Crowell (crowell@physics.umn.edu) before **September 6, 2011**. A nomination should consist of a single file and should include: (1) Nominator's name and contact information; (2) Suggested title of the symposium; (3) A paragraph describing the theme of the symposium and its justification; (4) A list of 5 speakers with the following for each: (a) full contact information, (b) a tentative title, (c) a brief description and justification, including references where available; (5) names and contacts of one or two potential back-up speakers.

Submission of a complete nomination package is essential for the review process, which is competitive. Last year there were fourteen nominations for the five GMAG-symposia. The justification and breadth of interest of the symposium are important to a successful proposal.

Please note that APS rules do not allow speakers to give invited talks at consecutive March meetings, and there is a searchable index of invited talks at the 2011 meeting available at <http://meetings.aps.org/Meeting/MAR11/Content/2061>.

Nominations for GMAG Officers and Members of the Executive Committee

Each year GMAG requests nominations for Vice-Chair (who succeeds to Chair-Elect, Chair, and Past Chair) and for two new at-large members of the Executive Committee. Nominations for these positions should be sent to Peter Fischer (pjfischer@lbl.gov), chair of the GMAG Nominating Committee, before **August 4, 2011**.

Nomination for GMAG Student Dissertation Awards

In order to encourage students working in magnetism, every year GMAG sponsors Outstanding Dissertation in Magnetism Awards. GMAG will present up to three dissertation awards at the next APS March Meeting. These awards will recognize students who have conducted outstanding research leading to their dissertation and will consist of an invited talk in an appropriate session at the APS March Meeting, a \$500 prize to the student, and up to \$250 toward his/her travel expenses to the APS March Meeting. The student must be in the final year before graduating with a PhD, and both the student and the advisor must be current members of GMAG. Nominations will consist of: a nominating letter; an extended abstract of the research; the student's CV and publication list; and contact information for the student, all submitted by the student's advisor or another senior researcher who knows the student's work well. The nominating letter must address the following issues:

- Quality and independence of the student's work
- Student's speaking ability
- Year the student began graduate school
- Student expected completion date (must be after September 1, 2011, but before September 1, 2012 to be eligible for the 2012 APS March Meeting);
- Assessment of the student's future potential as a research scientist

Nominations should be sent by email as a single PDF file to Andrew Kent (andy.kent@nyu.edu) by **October 3, 2011**. The GMAG Executive Committee will evaluate the nominations.

The 2011 recipient of the GMAG Dissertation Award was **Zoe Boekelheide**, University of California, Berkeley: Effects of Nanoscale Structure on the Magnetism and Transport Properties of Chromium and Chromium-Aluminum Alloys.

Congratulations!

GMAG Student Travel Award

To increase student participation and involvement in activities essential to GMAG and APS as a whole, GMAG will sponsor four Student Travel Awards for the March Meeting. The award will consist of \$250 in travel assistance to attend the meeting. The student will have lunch with a GMAG Executive Committee member, and is expected to attend the GMAG business meeting and serve one shift at the "Contact Congress" booth to support the APS outreach for congressional support for scientific research. The student must be a presenter at the March Meeting, and should submit an application, which can be downloaded from the GMAG website (<http://www.aps.org/units/gmag/>) after August 1, by email to Mark Stiles (mark.stiles@nist.gov) by **December 1, 2011**.

GMAG Focus Topic Descriptions and Organizers

06.11 Magnetic Nanostructures: Materials and Phenomena (GMAG/DMP)

This topic focuses on magnetic nanostructures such as thin films, multilayers, superlattices, nanoparticles, nanowires, nanorings, nanocomposites, hybrid nanostructures, spin phenomena in nanoscale organics, magnetic point contacts and self-assembled as well as patterned magnetic arrays. Sessions will include methods used to synthesize such nanostructures, the variety of materials used, and the latest, original theoretical and experimental advances. There is special interest in novel properties that arise at the nanoscale, as well as synthesis and characterization techniques demonstrating nano- or atomic-scale control of properties. Phenomena and properties of interest include: magnetization dynamics, magnetic interactions, magnetic quantum confinement, spin tunneling and spin crossover, proximity and structural disorder effects, strain effects, microwave resonance and microwave assisted reversal, magnetic anisotropy, and thermal and quantum fluctuations.

Organized by:

Axel Enders, aenders2@unlnotes.unl.edu
University of Nebraska

Sam Jiang, jiang@anl.gov
Argonne National Laboratory

Hao Zeng, haozeng@buffalo.edu
University of Buffalo

06.12 Emergent Properties in Bulk Complex Oxides (GMAG/DMP)

The emergence of exotic states of matter from the intricate coupling of the electronic and lattice degrees of freedom is a unique feature in strongly correlated electron systems. Included in this class are the complex oxides of 3-, 4-, and 5-*d* transition metal compounds that exhibit a wide range of novel physical properties stemming from the complex nature of the competing interactions and nearly degenerate multiple ground states. Associated with this complexity is a tendency for new forms of order such as the formation of stripes, ladders, checkerboards, or phase separation, and an enhanced response to external influences. This Focus Topic explores the nature of various ground states observed in bulk specimens of complex oxides and their competing interactions, the ways in which the spin, lattice, charge and orbital degrees of freedom respond on a variety of length scales, and how they interact and compete with each other to produce novel phenomena. It provides a forum to discuss recent developments and results covering basic aspects (new materials synthesis, experiment, theory and simulation) of bulk systems. Note there is some overlap in topic with other DMP and GMAG sessions on oxides. The organizers of all of the related focus sessions will share information and work together to make an optimal meeting program.

Organized by:

Despina Louca, dl4f@Virginia.edu
University of Virginia

Tanusri Saha-Dasgupta, tanusri@bose.res.in
S.N. Bose National Centre

Patrick Woodward, woodward@chemistry.ohio-state.edu
Ohio State University

06.13 Magnetic Oxide Thin Films and Heterostructures (GMAG/DMP)

Magnetism in complex oxides has long been a rich field of study in solid state physics as there are strong interactions between spin, charge, lattice, and orbital degrees of freedom. Furthermore, when magnetic oxides are grown as thin films they often exhibit additional effects resulting from epitaxial strain, reduced dimensionality, charge transfer, proximity effects, or phase competition and/or coupling across interfaces. This Focus Topic is dedicated to advances in the understanding of the electronic and magnetic properties of oxide thin films, heterostructures, superlattices, and nanostructures with an emphasis on growth, characterization, theoretical modeling and novel device physics. Specific areas of interest include, but are not limited to, (anti)ferromagnetism, strongly correlated “Mott” thin films, growth of oxide materials, control of their magnetic properties, domain structures, advances in techniques to probe and image different types of magnetic order in complex oxide thin films (including optical and electron-probes and neutron/synchrotron-based techniques), magneto-transport, and recent developments in theoretical prediction and materials-design approaches to magnetic oxide thin films, superlattices, and nanostructures. Note there is some overlap in topic with other DMP and GMAG focus sessions. As a rule of thumb, if magnetism plays a key role in the investigation or the properties observed, then the talk is appropriate for this focus topic. The organizers of all of the related focus sessions will share information and work together with the March Meeting Program Committee to make an optimal meeting program.

Organized by:

Alex de Lozanne, delozanne@physics.utexas.edu
University of Texas

Susanne Stemmer, stemmer@mrl.ucsb.edu
UC Santa Barbara

Suzanne te Velthuis, tevelthuis@anl.gov
Argonne National Laboratory

06.14 Spin Transport and Magnetization Dynamics in Metals-Based Systems (GMAG/DMP/FIAP)

Spin-related effects in metals and in ferromagnetic heterostructures are generally robust and readily observed at room temperature. Fundamental discoveries such as giant and tunnel magnetoresistance and current-induced spin-transfer torque are moving from discovery to applications rapidly, while fundamental spin-dependent transport physics and novel materials and thin film structures are being actively explored in all-metal junctions and magnetic tunnel junctions for deeper understandings and potentially new functional materials and devices for applications. This Focus Topic aims to capture new developments in these areas, including experimental and theoretical aspects of spin transport and magnetization dynamics in metal-based systems, such as ultrathin films, lateral nanostructures, perpendicular nanopillars, and tunnel junctions. In particular, contributions describing new results in the following areas are solicited:

The interplay between spin currents and magnetization dynamics in magnetic nanostructures; spin-transfer, spin pumping and related phenomena, including current-induced magnetiza-

tion dynamics in heterostructures and domain wall motion in magnetic wires.

Theoretical predictions and/or experimental discovery of half-metallic band structures, both in bulk solids and at the surfaces of thin films. Spin transport and magnetization dynamics in magnetic nanostructures (e.g. TMR, CPP-GMR and lateral spin valve structures) based on half-metallic materials.

Effects of the spin-orbit interaction on steady-state and dynamical properties of nanostructures including: the (inverse) spin and anomalous Hall effects, microscopic mechanisms of magnetization damping, and the effects of interface spin-orbit interaction.

Magnetic response to electric field (e.g. anisotropy, phase transition, exchange bias, ...) including: electric field activation in hybrid metals/oxide structures, piezoelectric layer coupled to ferromagnetic films, electrolyte/ferromagnetic systems

Ultrafast magnetization response to (and reversal by) intense laser pulses; magnetization dynamics at elevated temperatures and thermally assisted magnetization reversal.

Thermoelectric spin phenomena such as giant-magneto thermopower and Peltier effects, spin-Seebeck effect, spin and anomalous Nernst and Ettingshausen effects (spin caloritronics).

Thermal gradient and/or RF driven magnetization dynamics in (composite) nanostructures including spin wave excitation, propagation, and detection (magnonics), as well as vortices.

Interactions between electronic spin-current and magnon propagations in thin film and device structures.

Organized by:

Dafine Ravelosona, dafine.ravelosona@u-psud.fr
Institut d'Electronique Fondamentale, Orsay

Jonathan Sun, jonsun@us.ibm.com
IBM Research

Shufeng Zhang, zhangs@physics.arizona.edu
University of Arizona

6.15 Spin Dependent Phenomena in Semiconductors (GMAG/DMP/FIAP)

The field of spin-dependent phenomena in semiconductors shows rapid and significant advances and challenges in a widening range of new effects, new materials systems (e.g., heterostructures, oxides, silicon, diamond, graphene and organics), and new structures (e.g., self-assembled and lithographically defined semiconductor quantum structures, wires and carbon nanotubes, hybrid ferromagnetic/semiconductor structures). This focus topic solicits contributions aimed at understanding spin-dependent processes in magnetic and non-magnetic structures incorporating semiconducting materials. Topics include: (i) electrical and optical spin injection, spin Hall effects, spin-dependent topological effects, spin interference, spin filtering, spin lifetime effects, spin dependent scattering, and spin torque; (ii) growth, characterization, electrical, optical and magnetic properties of (ferro-)magnetic semiconductors, nanocomposite and hybrid ferromagnet/semiconductor structures including quantum dots, nanocrystals, and nanowires; (iii) spin-dependent transport and dynamical effects in semiconductors with or without spin-orbit interactions; (iv) manipulation, detection, and entanglement of electrical and nuclear spins in quantum systems such as dots, impurities and point defects; (v)

high temperature ferromagnetism in semiconductors and semiconductor oxides; and (vi) spin-dependent devices and device proposals involving ferromagnets and semiconductors.

Organized by:

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Virginia Tech

Paul Koenraad, P.M.Koenraad@tue.nl
Technical University of Eindhoven

Giovanni Vignale, vignaleg@missouri.edu
University of Missouri

06.16 Frustrated magnetism (GMAG/DMP/FIAP)

Simple antiferromagnets on bipartite lattices have well-understood ground states, elementary excitations, thermodynamic phases and phase transitions. At the forefront of current research are frustrated magnets where competing interactions suppress magnetic order and may lead to qualitatively new behavior. Frustrated magnets are expected to have unusual, quantum-disordered ground states and fractionalized excitations akin to those found in one-dimensional antiferromagnets. They are also sensitive to nominally small perturbations and interact in a non-trivial way with orbital and lattice degrees of freedom.

This Focus Topic solicits abstracts for presentations that explore both theoretical and experimental aspects of the field. The themes to be represented are united by geometrical frustration: valence-bond solids and other exotic magnetic orders, spin ice, quantum spin liquids, order from disorder, magneto-elastic coupling, and novel field-induced behavior. Also of interest are the effects of strongly fluctuating spins on properties beyond magnetism including transport, thermal transport and ferroelectricity.

Please note that Low-dimensional and Molecular Magnetism is now a separate focus topic (06.1.8).

Organized by:

Bruce Gaulin, gaulin@physics.mcmaster.ca
McMaster University

Art Ramirez, apr@soe.ucsc.edu
UC Santa Cruz

Oleg Tchernyshyov, olegt@jhu.edu
Johns Hopkins University

06.17 Spin-Dependent Physics in Carbon-Based Materials (GMAG/DMP)

This focus topic is on spin transport, spin dynamics and exchange in carbon-based materials, including organic and molecular solids, all-carbon systems, organic radical systems, and π -conjugated organic/polymeric systems. These issues are of great current interest because of breakthrough results in the field of 'organic spintronics'. Research at the intersection of several forefront areas in condensed matter and material physics will be covered: spin injection at the inorganic to organic interface, the degree of spin polarization attainable by organic based solids, spin coherence and relaxation, hyperfine interaction between the electronic spin and nuclear magnetic moments, and magnetic exchange and magnetic ordering. Phenomena and materials of interest include hybrid ferromagnetic/organic structures, spin transport in graphene and carbon nano-

tubes, spin qubits in diamond, quantum tunneling of the magnetic moment, and triplet states, as well as magnetic field effects (such as organic magnetoresistance), singlet/triplet issues and spin resonance in organic semiconductors.

Organized by:

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Technical University of Eindhoven

Jagadeesh Moodera, moodera@mit.edu
Massachusetts Institute of Technology

06.18 Low-Dimensional and Molecular Magnetism (GMAG/DMP)

The control and manipulation of spin and charge degrees of freedom in nanoscale systems has become a major challenge during the last decades, triggered by exciting applications in emerging technologies such as quantum computation and spintronics among others. For this goal to be accomplished, a complete understanding of the quantum behavior of interacting electronic and even nuclear spins in solid state systems is necessary. For conventional three-dimensional magnetic materials a robust framework for describing the low temperature structures, phase transitions, and excitations exists. However, when fluctuations are enhanced by low dimensionality, qualitatively new behavior can emerge. Low dimensional magnetic systems have become prototype systems in this direction. For example, the synthetic flexibility of molecule-based magnets allows the magnetic quantum response of the system to be engineered. This Focus Topic solicits abstracts that explore inorganic and organic molecule-based as well as solid state systems, and both theoretical and experimental aspects of the field. Topics of interest include: magnetism in zero, one, and two dimensions (e.g. quantum dots, single molecule magnets, spin chains, lattices), order by disorder, the role of magnetoelastic, spin-orbit and superexchange couplings, quantum critical low dimensional spin systems, topological excitations, quantum tunneling of magnetization, coherence phenomena and novel field-induced behavior.

Organized by:

Enrique del Barco, delbarco@physics.ucf.edu
University of Central Florida

Jürgen Schnack, jschnack@uni-bielefeld.de
Bielefeld University

Vivien Zapf, vzapf@lanl.gov
Los Alamos National Laboratory

GMAG Highlights of the 2011 March Meeting

There were over 800 magnetism related talks at the 2011 March Meeting, representing about 10% of the total meeting presentations. Here are some more of the meeting statistics. First, GMAG is responsible for sorting category 6 (Magnetism) abstracts, which is the third largest category after category 7 Complex structured materials, which includes graphene and category 4, Soft matter and polymers. GMAG sponsored or co-sponsored eight focus topic sessions and five invited symposia. There were 58 focus topic sessions and an additional 3 contributed sessions, with 58 invited talks. Including the invited symposium, there were over 80 invited talks on magnetism related topics at the meeting. We note that the focus topics are an important way that GMAG helps authors find an interested and receptive audience for their research results. The focus topic organizers and many volunteers organized these sessions.

In addition to these sessions, GMAG sponsored four lunch with the expert sessions for graduate students. We thank our experts for giving their time and effort to this activity.

1. Synchrotron-based Studies of Magnetic Materials and Complex Oxides
Darío Alejandro Arena, Brookhaven National Laboratory (darena@bnl.gov)
2. Complex Oxide Interfaces
John W. Freeland, Argonne National Laboratory (freeland@anl.gov)
3. Magnetic Recording Technologies
Eric Fullerton, University of California, San Diego (efullerton@ucsd.edu)
4. Life as a Physicist in an Industrial Research Lab: Pros and Cons from my Perspective
Olav Hellwig, Hitachi Global Storage Technologies (Olav.Hellwig)

At the GMAG business meeting we recognized our 2010 GMAG Sponsored APS Fellows:



New GMAG APS Fellows Gerrit E. W. Bauer (Delft University of Technology, left) and Ralph Skomskii (University of Nebraska, right) at the GMAG award ceremony in Dallas, March 2011. The other new APS fellows are Burkard Hillebrands (University of Kaiserslautern), Zi Q. Qiu (University of California, Berkeley), and Thomas J. Silva, (NIST, Boulder).

Gerrit E. W. Bauer, Delft University of Technology

For exposition of the interaction between spin transport, magnetization dynamics, charge and heat transport, and mechanical motion.

Burkard Hillebrands, University of Kaiserslautern

For contributions to the understanding of dynamic magnetic excitations in confined magnetic structures, linear and non-linear spin-wave propagation phenomena, and his pioneering work on the development of space- and time-resolved Brillouin light scattering techniques.

Zi Q. Qiu, University of California, Berkeley

For outstanding experiments to understand the two-dimensional magnetic origin, anisotropy and quantum size effect in magnetic nanostructures, and for the development of novel approaches involving wedged samples, curved substrates and the surface magneto-optic Kerr effect.

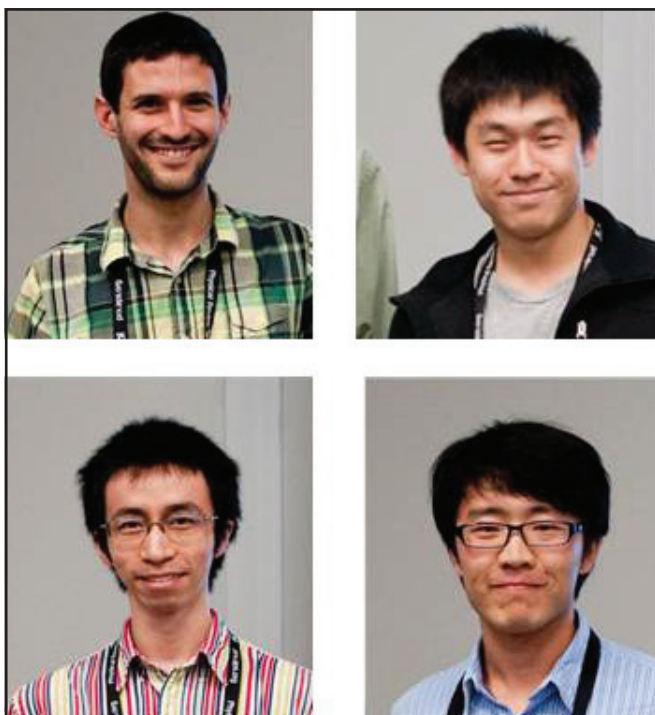
Thomas J. Silva, NIST - Boulder

For his fundamental contributions to the experimental studies of the spin-torque oscillators, their interactions, and collective states, and for the development of new quantitative experimental methods for the investigation of magnetization dynamics in thin films and nanostructures.

Ralph Skomski, University of Nebraska - Lincoln

For his significant contributions to our understanding of magnetic materials, especially permanent magnets and magnetic nanostructures

We also recognized graduate students who received the 2011 GMAG Student Travel Awards:



GMAG Student Travel Award winners for 2011. Clockwise from upper left: Andrew Balk (Penn State), Jimmy Kan (UC San Diego), Shu Yan (University of South Carolina), and Bo Wen (City University of New York).

Andrew Balk (Penn State University)-Measurements of nanoscale domain wall flexing in a ferromagnetic thin film

Jimmy Kan (University of California, San Diego)-Magnetic properties of single crystal nickel nanowires

Bo Wen (City University of New York)-Local magnetic susceptibility study of long-range order in Mn12-ac

Shu Yan (University of South Carolina)-Optimal field sweep rate in magnetic switching of a single domain particle

Finally, we thank all the GMAG volunteers, symposium and focus topic organizers who contributed to the success of the 2011 March Meeting.

Request for Magnetism Outreach Proposals

For several years GMAG has made funds available to its members to support outreach activities. Limited funds (up to \$2500 per project) are available to cover supplies and expenses associated with activities, which aim to educate non-scientists about magnetism and its applications. Preference will be given to innovative activities that will be documented so that they can be reproduced elsewhere.

The outcome of the activities will be disseminated to the GMAG membership through the GMAG Newsletter (see also the following article) and to the broader magnetism community through the GMAG website.

Interested GMAG members should prepare a 1-2 page summary of the proposed activity (including expected duration and outcome) along with a 1 page CV and a list of anticipated expenses. These should be mailed as a single file in PDF format to the GMAG Chair, Andrew Kent (andy.kent@nyu.edu). The GMAG Executive Board will review proposals on an ongoing basis.

GMAG Executive Committee

Chair: Andrew Kent andy.kent@nyu.edu

Chair-Elect: Paul Crowell crowell@physics.umn.edu

Vice-Chair: Mark Stiles mark.stiles@nist.gov

Past-Chair: Berend Jonker jonker@nrl.navy.mil

Secy-Treas: Shireen Adenwalla sadenwalla1@unlnotes.unl.edu

Members-at-Large:

Peter Fischer, Lawrence Berkeley Natl Lab

Evgeny Tsymbal, Univ of Nebraska - Lincoln

Olav Hellwig, Hitachi Global Storage Tech

Shufeng Zhang, Univ of Arizona

Kristen Buchanan, Colorado State Univ.

Olle Heinonen, Argonne Natl Lab

Upcoming Conferences

International Materials Research Congress (IMRC) 2011
August 14-18, 2011

Moscow International Symposium on Magnetism
August 21-25, 2011

Nanomaterials Symposia, European Materials Conference
(EUROMAT 2011)
September 12-15, 2011

Soft Magnetic Materials 2011
September 18-22, 2011

56th Conference on Magnetism and Magnetic Materials
October 30-November 3, 2011

APS March Meeting 2012
February 27-March 2, 2012

APS April Meeting 2012
March 31-April 3, 2012

APS March Meeting 2013
March 18-22, 2013

APS April Meeting 2013
April 13-16, 2013

An up-to-date list of magnetism related conferences can be found on the GMAG website: <http://www.aps.org/units/gmag/meetings/index.cfm>

Important Deadlines

Thanks for being involved with GMAG and please do not hesitate to get actively involved in the many activities described above.

August 4, 2011

Nominations for Executive Committee

Peter Fischer, pjfischer@lbl.gov

September 6, 2011

Symposia Nominations for March Meeting

Paul Crowell, crowell@physics.umn.edu

September 6, 2011

Invited Speaker Suggestions for Focus Topics

Focus Topic Organizers (see above list of organizers)

October 3, 2011

Dissertation Award Nomination

Andrew Kent, andy.kent@nyu.edu

November 11, 2011

March Meeting Abstracts

Andrew Kent, andy.kent@nyu.edu

December 1, 2011

March Meeting Student Travel Award

mark.stiles@nist.gov

ongoing

Outreach Proposals

Andrew Kent, andy.kent@nyu.edu

Ask your colleagues to Join GMAG

For only \$8 additional dues APS members can become GMAG Members with these benefits (students are free for one year):

- Quarterly GMAG newsletter.
- Eligibility for GMAG graduate student awards and sponsorship.
- Potential to increase the number of APS Fellows sponsored by GMAG.
- Potential to increase the number of invited talks on Magnetism at the March Meeting.
- Opportunity to help shape the voice and future of the Magnetism community (your community) in the US.

See the GMAG website: <http://www.aps.org/units/gmag>. TO JOIN: Go to the APS page for "Membership Units" (<http://www.aps.org/membership/units/join-unit.cfm>) and follow instructions for adding a unit to your membership. Or call the APS at 301-209-3280 and tell a Membership Representative that you want to join topical group GMAG.