

From the President

By Liesl Folks, President of the Magnetics Society

With this newsletter we find ourselves roughly half way through our milestone 50th anniversary year for the IEEE Magnetics Society, a year marked by some great events and achievements that have directly advanced our goal of supporting and strengthening the international community in magnetism and magnetic materials.



I wish to offer my heartfelt congratulations to the Intermag 2014 team for the remarkable success of the conference held in Dresden in May. The conference attracted among the highest number of attendees ever, and the participants were delighted by the state-of-the-art conference facility, by the terrific location

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Nominations for August 2014 AdCom Elections

By Takao Suzuki, Nominations Committee Chair

I am happy to report the results of the solicitation for Administrative Committee (AdCom) nominees, for the term of 2015-2017. The nominations were accepted from April 15 through June 1, 2014. There were twenty one (21) nominations (Europe 9, USA 7 and Asia/Pacific 5). There were no nominations by petition. The ballot selection process was completed by the Nominations Committee. As a result, thirteen (13) nominees have been finalized. The Nominations Committee then requested the AdCom to approve the names on the ballot, as required by the Magnetics Society Bylaws. The AdCom discussed and approved the nominees. The slate of names for the August general elections is:

- Franca Albertini
- Bernard Dieny

- Chi-Huang Lai
- Kai Liu*
- Philip Pong
- Dafiné Ravelosona
- Rudolf Schäfer
- Alexandru Stancu
- Thomas Thomson
- Jian-Ping Wang
- Dan Wei
- Roger Wood
- Te-Ho Wu*

*current AdCom member, with term ending 12/31/2014.

The general election will start in the middle of August 2014.

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on the banks of the Elbe River, and by the warm hospitality of the City of Dresden. The technical program provided a stimulating survey of a range of technical advances in magnetism and magnetic materials, headlined by an excellent Plenary Lecture by Prof. Theo Rasing from The Netherlands. Conference Chairs Ludwig Schultz and Michael McHenry, and Local Chairs Heike Schlörb and Jürgen Fassbender, deserve our grateful thanks for the many hours of volunteer effort that went into making our flagship annual meeting a tremendous success.

Looking forward, we hope to see a great many of you at the upcoming MMM Conference, to be held in Honolulu, November 3-7, 2014. The MMM meeting is jointly sponsored by American Institute of Physics Publishing in accord with a long-standing agreement that we greatly value. Please note particularly that student travel awards are available for MMM, and the deadline for applications is 12 September. Also, childcare awards are available for attendees with small children, especially for early career attendees, with an application deadline of September 5, 2014. More information can be readily found online at www.magnetism.org.

One of the goals of recent Administrative Committees has been to strengthen our relationships with related professional organizations around the world. One vehicle for this activity is the establishment of Sister Society Agreements (SSAs) between the IEEE and the regional entities, with the goal of solidifying our support of local communities of magneticians. One of the earliest SSA's established was with the Taiwan Association for Magnetic Technology (TAMT), and this June I was delighted to attend the Annual Meeting of the TAMT, which attracted some 200 participants. It was wonderful to see how this meeting brought together the regional community to exchange technical advances and new science. The meeting also attracted a great number of student attendees, for whom attending an international conference can be challenging, offering them an opportunity to share their work and solicit ideas for how best to advance their work. Continuing to support and expand such regional activities through our Chapters and SSAs is surely an ongoing high priority for our Society.

Liesl Folks can be reached via: lfolks@buffalo.edu

INTERMAG 2014 Conference Review

By Ludwig Schultz & Michael McHenry, INTERMAG 2014 Conference Chairs

Following the European venues for the IEEE International Magnetism (INTERMAG) Conference in Amsterdam 2002 and Madrid 2008, INTERMAG Europe 2014 was held May 4-8, 2014, at the International Congress Center in Dresden, Germany. As the premier technical conference on applied magnetism, INTERMAG 2014 attracted in excess of 1580 attendees from all over the world, as well as 24 exhibitors. There were 2466 digests from 53 countries submitted, and 1738 were selected among them for presentation.

The Conference was inaugurated on Sunday afternoon by a tutorial session followed by a coming together at the opening "Bierstube." Scientific and technical contributions were arranged by the Program Committee into 120 sessions covering new developments in magnetism. Invited symposia were organized on the following topics: energy assisted magnetic recording beyond 1TB/in²; status and trends in MRAM; advanced techniques in computational magnetism; motors and generators; new developments in magnetic hyperthermia; magnetism towards 3D; recent developments in permanent magnets; and graphene spintronics.

The Awards Ceremony of the IEEE Magnetics Society honored several outstanding scientists. Randall Victora of the University of Minnesota was presented with the 2014 Achievement Award. Peter Fischer (LBNL), Bruce Gurney (HGST), Axel Hoffmann (ANL), Magdalena Salazar-Palma (Universidad Carlos III de Madrid), Kiruba Sivasubramaniam (GE), Jiming Song (Iowa State University), Charles Sullivan (Dartmouth College) and Migaku Takahashi (Tohoku University) were presented as new IEEE Fellows. Adekunle Adeyeye (National University of Singapore), Michael McHenry (Carnegie Mellon University), Rudolf Schaefer (IFW Dresden), Koki Takanashi (Tohoku University) were honored as last year's 2013 Distinguished Lecturers. The Conference Plenary Session featured Prof. Theo Rasing (Radboud Universiteit) from The Netherlands and his lively presentation on "All Optical Control of Magnetism: From Fundamentals to Nanoscale Recording". The Awards Ceremony and Plenary Session were followed by a Plenary Reception in the Congress Center. The nice weather encouraged the conference attendees to network on the Congress Center Terrace from which they had lovely views of the Elbe River and Dresden's baroque downtown.

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Randall H. Victora Receives 2014 Achievement Award

By Isaak Mayergoyz, Achievement Award Subcommittee Chair

The IEEE Magnetics Society honors one of its outstanding members each year for his or her lifetime professional achievement. This is the highest award of the Society and is given for scientific, technical achievements and service to the Society. The award is presented at the INTERMAG conference each year, and consists of a diploma with citation and a cash prize.

Randall H. Victora receives the 2014 Achievement Award for “contributions to the theory and simulation of magnetic materials, particularly magnetic recording media.”

Prof. Victora is widely recognized for contributions in three major areas, each corresponding to a different decade in his research career. In 1987, he published the first paper to demonstrate accurate predictions of hysteresis loops and switching fields for coercive materials, such as recording media, without the benefit of adjustable parameters. He employed techniques such as division of thin films into grains, internally discretized grains linked by exchange, periodic boundary conditions for treatment of magnetostatics, and numerical integration of the Landau-Lifshitz-Gilbert equations. In the 1990s, Prof. Victora mostly worked on superlattice media, originally for magneto-optical recording, ultimately for magnetic recording. He was one of the first researchers to make first-principle predictions for magnetic anisotropy and magneto-optic effects.

Most recently, Prof. Victora published an approach for combining hard and soft materials within the same grain so that the thermal stability of the hard layer was retained, but a smaller magnetic field was necessary for high frequency switching. Exchange-coupled composite (ECC) media presented obvious advantages for a magnetic recording industry facing the superparamagnetic limit. Versions of it have appeared in numerous commercial products. It was recognized by an INSIC Technical Achievement Award in 2006, shortly after its initial publication. Prof. Victora is one of only two individuals to have ever received two separate Technical Achievement Awards from

the Information Storage Industry Consortium (INSIC); Neal Bertram is the other.

Prof. Victora received his B.S. in Physics and B.S. in Math from the Massachusetts Institute of Technology in 1980 and his Ph.D. in Physics from U.C. Berkeley in 1985. Subsequently, he was a Senior Research Scientist and Research Associate at Kodak Research Laboratories (1985-1998) before becoming Associate Professor in Electrical and Computer Engineering at the University of Minnesota (1998-2001). From 2001 to present, he has been Professor in Electrical and Computer Engineering at the University of Minnesota, where he is Director of the Center for Micromagnetics and Information Technologies (2003-present) and Director of Graduate Studies (2011-present). Prof. Victora has also served as President of the IEEE Magnetics Society (2009-2010).



Prof. Victora joins a distinguished list of past recipients: Fred Luborsky 1981, Herb Storm 1982, Harold Lord 1984, Joe Suozzi 1985, Fritz Friedlaender 1986, Andrew Bobeck 1987, Floyd Humphrey 1988, Paul Biringier 1989, Daniel Gordon 1990, Emerson Pugh 1991, Yoshifumi Sakurai 1992, William Doyle 1993, Richard Barker 1994, Mark Kryder 1995, Koosuke Harada 1996, Gordon Slemmon 1997, Stan Charap 1998, Dave Thompson 1999, Denis Mee 2000, Fred Hagedorn 2001, Sun-ichi Iwasaki 2002, Carl Patton 2003, Yutaka Sugita 2004, Robert Fontana 2005, Neal Bertram 2006, John C. Mallinson 2007, Jack H. Judy 2008, Roger Wood 2009, Isaak Mayergoyz 2010, Jian-Gang (Jimmy) Zhu 2011, John Slonczewski 2012 and Michael Mallary 2013.

Get in touch...

We're always interested to hear from Newsletter readers... what you like, what you don't like - what you'd like to see more of in the Newsletter. Just letting us know that you're a reader would be great too!

Drop the Editor a line at: g.p.hatch@ieee.org

ICMM 2014 Conference Review

By Masahiro Yamaguchi, Conference Chair & Toshiro Sato, Program Committee Chair

The 2014 IEEE International Conference on Microwave Magnetics (ICMM 2014) was held June 29-July 4, 2014, at the Sendai International Center in Sendai, Japan. As the premier technical conference on microwave magnetics, following the Fort Collins (2008), Boston (2010) and Kaiserslautern (2012) meetings, ICMM 2014 attracted 95 presentations from around the world. There were 91 digests from 16 countries submitted, and 88 were selected for presentation.

The Conference kicked off on Sunday morning with a bus tour to Higashi-Matsushima, a tsunami disaster area, and Matsushima pine tree islands, followed by an evening welcome reception at the conference venue. The ICMM International Advisory Committee meeting was also held in the same evening to review the 2014 conference and to decide the date and venue of the 2016 conference.

Scientific and technical contributions were arranged by the ICMM 2014 Program Committee into 16 sessions, covering new developments in microwave magnetics. Three plenary lectures were organized on spin wave dynamics in metallic ferromagnetic films (Mikhail Kostylev), magnonics (Burkard Hillebrands) and spin spray ferrites (Masanori Abe); 19 invited lectures were also featured at the conference.

The conference dinner and honorary session were held in Sendai Metropolitan Hotel. After the welcome message from the conference chair and Hiroshi Kanai, Dean of the School of Engineering, Tohoku University, the Honorary Awards were

presented to Boris Kalinikos (Saint-Petersburg Electrotechnical University) and Masanori Abe (Tokyo Institute of Technology). Also honored were five student travel awardees - Yunpeng Chen (University of Delaware), Kumar Mahato (S. N. Bose National Centre for Basic Sciences), Svetlana Sheshukova (Saratov State University), Yue-Long Lv (Harbin Institute of Technology) and Masaki Furuta (Tohoku University). Two student poster awardees - Kazuaki Furihata (Shizuoka University) and Thomas Meyer (Technische Universität Kaiserslautern) - were also honored.

The weather was mostly fine except for the day of bus tour. The conference attendees enjoyed the technical sessions, networking and greenery of the “City of Trees” including the view of Hirose river.

Overall, this conference was scientifically successful and financially balanced, thanks to the the great efforts of the International Advisory Committee, Program Committee, Organizing Committee, a number of volunteers, Session Chairs and students. A special thanks goes to all members of the Management Committee, to Massimo Pasquale, Magnetics Society CEC Chair, and to Manuel Vazquez, Magnetics Society Secretary-Treasurer.

ICMM 2016 will be held in Tuscaloosa, Alabama, USA, during June 5-8, 2016, with Tim Mewes as the Conference chair. Refer to <http://icmm2016.ua.edu> for more details.



A tsunami survivor tells the real story of the disaster.



International Advisory Committee meeting at Daikanro restaurant

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Group photograph of the conference attendees.



Opening address by Masahiro Yamaguchi, the conference chair.



Plenary lecture by Mikhail Kostylev.



Welcome address by Hiroshi Kanai, Dean School of Engineering, Tohoku University.



Student travel awardees.



Sendai Sparrow Dance during the conference banquet.

Boston RNW 2014 Workshop Review

By Radhika Barua & Pegah M. Hosseinpour, Workshop Co-organizers

“When you engage with people, you build your own insight into what’s being discussed. Someone else’s understanding complements yours, and together you start to weave an informed interpretation. You tinker until you can move on.”-- Marcia Conner, Author of the book *The New Social Learning*.

In keeping with the spirit of this quotation, the first Boston Regional Nanomagnetism Workshop (RNW) was held on April 4, 2014, at Northeastern University, Boston, Massachusetts. This one-day event was co-sponsored by the College of Engineering of Northeastern University and the Boston Chapter of the IEEE Magnetics Society.

The primary objective of this workshop was to facilitate the exchange of ideas and active collaborations between research groups working in the field of fundamental and applied

magnetism in the Greater Boston area. The forum consisted of a total of thirty oral and poster presentations, delivered by graduate students and post-doctoral research associates from local universities, namely, Northeastern University, Massachusetts Institute of Technology and Harvard University.

The keynote speech for the event was given by the IEEE Magnetics Society 2014 Distinguished Lecturer, Professor Hans-Benjamin Braun from University College Dublin, Ireland, and was entitled as “Topological Effects in Nanomagnetism: From Perpendicular Recording to Monopoles”. The workshop program and abstracts of the presented talks and posters are available at the webpage of Nanomagnetism group at Northeastern University: www.northeastern.edu/nanomagnetism.



Workshop participants during the oral presentation session.



Presenters discussing their work at the presentation session of the workshop.



Hans-Benjamin Braun, 2014 Distinguished Lecturer, giving the keynote speech of the event

INTERMAG 2014 Conference Review

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The traditional Women's Networking Reception was held on Wednesday evening, and the "Bierstube" proved to be as popular as ever. The successful "Lunch with the Experts" outreach to student attendees was continued, with 119 student participants gathering with 17 experts in the field. On the occasion of the 50th anniversary of the Magnetics Society, beer mugs with the Society logo were distributed to the conference participants, which enjoyed great popularity.

Overall, this conference was scientifically successful and financially well-balanced due to the high level of commitment of the staff at IFW Dresden, coupled with the efforts of a high number of volunteers, including all the Intermag 2014 Editors, Session Chairs and paper reviewers. A special thanks goes to all members of the Management Committee, to Massimo Pasquale, Magnetics Society CEC Chair and to Manuel Vazquez, Magnetics Society Secretary-Treasurer.

INTERMAG 2014 Plenary Session

By Burkard Hillebrands, Honors & Awards Committee Chair

The plenary session of the 2014 INTERMAG Europe Conference took place on May 6, 2014 at the International Congress Center in Dresden, Germany. It was the central event of the conference, giving the participants opportunity to gather together, to participate in the Magnetics Society activities such as the Award Ceremony and the Plenary Lecture, and to meet afterwards at the reception.

The plenary session was jointly co-chaired by Ludwig Schultz (IFW Dresden) and Michael McHenry (Carnegie Mellon University). Prof. Schultz gave the opening address. He described the conference and the beautiful Dresden environment. He gave an introduction to the history of Dresden, mentioning the destruction during the Second World War and presented modern Dresden as a city of culture and science.

Next Prof. Schultz described the conference and provided statistical data. In total 2466 digests have been submitted out of which 1738 were accepted, and 69 invited talks were presented. Thus this INTERMAG Conference came very close in numbers to the preceding Joint MMM/INTERMAG 2013 conference in Chicago. Attendees from 53 countries were in attendance, with the largest groups of attendees coming from Japan (248), China (213), Germany (206) and the United States (165), underlining the fact, that the INTERMAG Europe conference is a truly international event. Prof. Schultz also took the opportunity to thank the many volunteers that made the conference such a success. The audience joined him in recognizing the program chairs Nora Dempsey, Russell Cowburn and Zbigniew Celinski, the treasurer Rudolf Schäfer and Petru Andrei, the publication chair Oliver Gutfleisch, and editors Alina Deac, David Dorrell, Oliver Gutfleisch, Min-Fu Hsieh, Ron Jansen, Ganping Ju, Barbara Kaeswurm, Mei Feng Lai, Johannes Paulides, Ciro Visone, Dan Wei, and Jong-Ching

Wu. The conference editor of the IEEE Transactions on Magnetics was Laura H. Lewis. The author thanked the exhibits chair Giselher Herzer, the local chairs Jürgen Fassbender and Heike Schlörb, the student awards chair Mingzhong Wu, the student travel chair Matt Carey, as well as the conference management Desdemona Bock (CMD). In total 184 session chairs, including the co-chairs, contributed to a smoothly run conference.

The Honors and Awards Committee chair Burkard Hillebrands guided attendees through the awards part of the session. The IEEE Magnetics Society Achievement Award is awarded every year to a Magnetics Society member who has made extraordinary contributions to the field of magnetism, both through technical achievements and through service to the Magnetics Society. Previous recipients have included such distinguished scientists, engineers and managers as Floyd Humphry, Emerson Pugh, Bill Doyle, Neal Bertram, Isaak Mayergoz, John Slonczewski, and last year Michael Mallery. This award is the highest honor bestowed by the Magnetics Society. The recipient at this conference was Randall Victora, "for contributions to the theory and simulation of magnetic materials, particularly magnetic recording media." The award, consisting of a certificate and a cash award, was presented by Magnetics Society President Liesl Folks. She addressed the large contribution Prof. Victora has made in advancing the theory and the simulation in this applied and technologically extremely relevant field of magnetism.

This year's IEEE Reynold B. Johnson Information Storage Systems Award was presented to John K. Ousterhout and Mendel Rosenblum from Cornell University, "for fundamental contributions to the design and implementation of log-structured file and storage systems."

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INTERMAG 2014 Plenary Session *continued from page 7*

In 2014 a total of eight members of the Magnetics Society have been elevated to the grade of IEEE Fellow. They were presented next. The IEEE Grade of Fellow is conferred by the Board of Directors of the IEEE upon a person with an extraordinary record of accomplishments in any of the IEEE fields of interest. The total number selected in any one year does not exceed one-tenth of one percent of the total voting Institute membership. The new Follows are Peter Fischer, Bruce Gurney, Axel Hoffmann, Magdalena Salazar-Palma, Kiruba Sivasubramaniam, Jiming Song, Charles Sullivan and Migaku Takahashi.

Next, the Honors and Awards Chair thanked the 2013 Distinguished Lecturers for the work that they have done in the past year, giving lectures all around the world, and he presented them with Certificates of Appreciation. They were Adekunle Adeyeye, Michael McHenry, Rudolf Schaefer and Koki Takanashi. They were selected because of their high level of expertise in topics of interest to the magnetism community and because of their excellence in public speaking. The new 2014 Distinguished Lecturers were introduced: Hans-Benjamin Braun, Jonathan Coker, Ron Jansen and Tim St. Pierre.

The Honors and Awards chair thanked Paul Crowell, Chair of the 2013 Joint MMM/INTERMAG conference in Chicago, for organizing an exciting and very successful conference in Vancouver. Unfortunately, Paul could not attend the Dresden conference.

It is a good tradition to thank those members of the Society's Administrative Committee (AdCom) who are rotating off the committee. They were called on the stage, where they were presented with Certificates of Appreciation. They were Ermanno Cardelli, Oliver Gutfleisch, Kannan Krishnan, Dmitri Litvinov, Alexandru Stancu, Yoshishige Suzuki, and Koki Takanashi.

Each year the Magnetics Society sponsors a summer workshop for students, where some 50 students attend a three-day workshop given by some of the best scientists working in magnetism. This program is run by the Education Committee, and Education Committee Chair Mingzhong Wu presented a Certificate of Appreciation to thank the Chairs of the Student Workshop in 2013, Ermanno Cardelli and Giovanni Carlotti. They very successfully organized the 2013 summer school in Assisi, Italy.

Next, the Student Committee chair, Mingzhong Wu, introduced the 2014 Best Student Presentation Award finalists. Three finalists were selected, following the submission of abstracts to the conference and review of their applications, based on the likely quality and impact of their work. They were Ezio Lacoocca (University of Gothenburg), Markus Gellesch (IFW Dresden) and Juan G. Alzate (UCLA).

As part of its commitment to keeping the field of magnetism vibrant, the Magnetics Society provides travel grants for students to attend Magnetics Society sponsored conferences. Generally, these are students in masters or doctoral programs, within a year or so of graduating. Their vitality and enthusiasm brings a fresh perspective to the conference, and the students have a chance to learn more about how conferences and publications feature into being a professional scientist or engineer.

The highlight of each Plenary Session is the Plenary Lecture. Theo Rasing from the Radboud Universiteit, Nijmegen, The Netherlands gave a very exciting and inspiring lecture on "All optical control of magnetism: From fundamentals to nanoscale recording." Using the tool of ultrafast laser spectroscopy he showed how magnetism can be controlled by light, and how new next generation applications can be realized on these concepts.

New Senior Members

The following members of the IEEE Magnetics Society were recently elevated to the grade of Senior Member.

June 2014: Magundappa Hadimani, Jurgen Kosel, Chih-Huang Lai, Xiaoyong Liu, Valentyn Novosad and Osamu Shimizu.

For further information, visit the IEEE Web site at:

www.ieee.org/membership_services/membership/grade_elevation.html

INTERMAG 2014 Student Travel Grant Reports

Submitted by Burkard Hillebrands, Honors & Awards Committee Chair

Each recipient of a student travel grant award from the Magnetics Society is asked to write a brief summary of their conference experience. The following are extracts from the summaries written after the 2014 INTERMAG Europe Conference in Dresden.

“It was an excellent opportunity to meet both new and old colleagues who are leaders in their communities, and the daily Bierstubes always provided a low-key environment to discuss work and social aspects of our research. I cannot stress enough how meaningful the travel award was, it was literally the deciding factor in my ability to attend and present at INTERMAG, and therefore to be published in the highly respected IEEE Transactions on Magnetics.”

-- Andrew Becnel, University of Maryland, USA

“The opening tutorial session gave me a real insight into the diversity of the research being undertaken in the area of magnetics. I found the talk by Dr. Adeyeye on nanoscale magnonic crystals particularly interesting. On Tuesday afternoon the conference organised the student’s “lunch with an expert”. I had lunch with Dr. Mashiro Yamaguchi along with 7 other students from all around the world. This was a great idea by the conference organisers as not only did I get to discuss my work with Dr. Yamaguchi, but I got to learn about the life of a student at other universities around the world.”

-- David Richardson, University of Limerick, Ireland

“The IEEE INTERMAG Conference provided me a wonderful opportunity to learn about the latest achievements in magnetism from the great experts themselves. I also got useful experience in the discussion of the results of my own research with the leading scientists of the magnetics community. Participation at the conference gave me a lot of useful contacts, knowledge and new ideas for improving my research.”

-- Dmitry A. Kuzmin, Chelyabinsk State University, Russia

“The presentations offered a great opportunity to learn the cutting edge of the magnetics industry. Presenting our own work sparked some very fruitful discussion with top experts in the field. We believe that those discussions will be helpful in shaping both of our research, a real exchange of ideas. Being my last conference before graduating, this was a special opportunity to meet new people and to thank the people who have helped me get here.”

-- Dustin Gilbert, University of California - Davis, USA

“By combining a beautiful conference centre along the Elbe, insightful tutorials and symposiums, a great lunch with experts and intriguing talks with peers over poster sessions and after the oral presentations, INTERMAG was a wonderful and fascinating conference. Thanks to the big IEEE Magnetics community!”

-- Juan G. Alzate, UCLA, USA

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INTERMAG Student Travel Grant Reports *continued from page 9*

“It was amazing to see so many engineers, scientists and researchers working on magnetism and related topics from all over the world. It has strengthened my belief and interest in this field! Thanks to INTERMAG for providing such a great networking opportunity for me to meet people whose names I read as authors of papers. I even talked with them and touched on the possibility of collaboration in the future. It feels like a dream coming true!”

-- Longchen Liu, University of Calgary, Canada

“Various topics such as nano-magnets, bio-magnetism, magnetic recording media, magnetization dynamics, etc. took us on the endless highway of magnetism, which explored the various aspects and applications of magnets. Meeting with magnetism entrepreneurs helped to develop contacts which will help to explore career opportunities. New friendships and a professional network were developed. I got a chance to meet esteemed scientists to whose papers I constantly refer and had discussions with them. I feel proud to be an IEEE member. I have taken home good memories and a bright future.”

-- Neelam Sunil Shinde, University of Mumbai, India

“The conference center was a large and open building with a great view of the city. Providing a presentation in the largest room of this center, suitable for approximately 600 people, was a great experience. Interesting seminars were provided for a wide range of subjects, ideal for expanding your knowledge in different disciplines. Of course the famous Conference Bierstube was a great opportunity to get to know other experts in the field in an informal manner. This conference was a great success and provided a lot of different opportunities.”

-- Bob van Nijhuijs, TU Eindhoven, The Netherlands

“I found that the INTERMAG conference helped me to improve my interpersonal and communication skills and to expand my scientific knowledge in a way that would not take place in a laboratory. Not to mention the invaluable discussions I had with people in my research field. They provided me with insight that I would not have easily come across otherwise, making me realize that communication is a key to scientific progress.”

-- Orfeas Kypris, Iowa State University, USA

“This being my second international conference as well as having attended the Summer School in 2013, it is interesting to see how many people you start to recognise and know. In fact a number of these were fellow students who had also received the

student award. Furthermore, as I will be wanting a job in 9 months it was good to be able to talk with a number of people of varying backgrounds about the available options. This ranged from how to apply for funding for a post-doctorate position in the USA vs. in the EU to giving CVs to people in industry.”

-- Robert Carpenter, University of York, UK

“I could interact with many scientists and students belonging to different research areas of magnetism. It was overall a good experience for me and I got to learn many new things and got good feedback. I'm very glad that the IEEE Magnetics Society provided funding towards the major expenses of my travel.”

-- Shwetha Bhat, Indian Institute of Science, Bangalore, India

“The conference has really impacted on my scientific formation. It has provided me with accuracy, a wide vision about new developments and researching on magnetism. I had the opportunity to talk to and exchange ideas with students and researchers from all over the world, many of them experts in their fields, which have enlarged considerably my knowledge. I have also expanded my professional network and now I feel so encouraged to join the IEEE Magnetics Society and keep working hard together.”

-- Ulises Acevedo, National Autonomous University of Mexico

“The INTERMAG 2014 conference in the beautiful city Dresden has been a great experience with the numerous professional presentations. The opportunity to have an oral presentation in the great hall was impressive. Moreover, the discussions with experts in the field during the posters sessions have been a valuable experience. Overall, the INTERMAG 2014 conference has been a great success as a result of an excellent organizing committee and all involved people.”

-- Nilles H. Vrijzen, TU Eindhoven, The Netherlands

“Prof. Matt Might at University of Utah has said that ‘you push the boundary of the sphere of human knowledge for several years until, one day, the boundary gives way and you make a minuscule dent, which is called a Ph.D.’. With the nonstop inflow of ideas, discussions, and German beers, it was one of the most stimulating time in my life. My hope is that the next person receiving this opportunity shares my excitement and, one day, we can work together on pushing ourselves into the uncharted territory.”

-- Yu Yahaqi, UCSC, USA

INTERMAG 2014 Best Student Presentation Finalists

By Burkard Hillebrands, Honors & Awards Committee Chair

The selection of the winner of the Best Student Presentation Award was made at the 2014 INTERMAG Europe Conference in Dresden. All presentations were excellent, and the finalists contributed papers of great interest to the conference attendees. Congratulations to the finalists and the winner!

Winner: Juan G. Alzate, UCLA

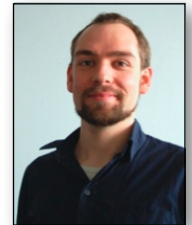
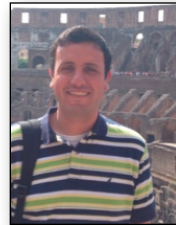
Title: Voltage-induced dynamics in nanoscale magnetic tunnel junctions: higher-order anisotropy contributions to ferromagnetic resonance and switching.

Finalist: Ezio Iacocca, University of Gothenburg

Title: Fine-tuning the energy landscape of localized spin wave modes in elliptical nano-contact spin torque oscillators.

Finalist: Markus Gellesch, IFW Dresden

Title: Heusler materials inside carbon nanotubes: an approach towards chemically stable nanoscale intermetallic magnets.



INTERMAG 2014 Plenary Session: in Pictures

By Burkard Hillebrands, Honors & Awards Committee Chair



Ludwig Schultz and Michael McHenry, the Conference Chairs, giving the opening address.



Randall Victora receives the 2014 Achievement Award from Society President Liesl Folks.



The new IEEE Fellows Axel Hoffmann, Migaku Takahashi, Bruce Gurney, and Peter Fischer



2013 Distinguished Lecturers: Michael McHenry, Rudolf Schaefer, Koki Takanashi, and Adekunle Adeyeye.

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INTERMAG 2014 Plenary Session: in Pics

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Professor Theo Rasing, delivering the 2014 INTERMAG Europe Plenary Lecture.



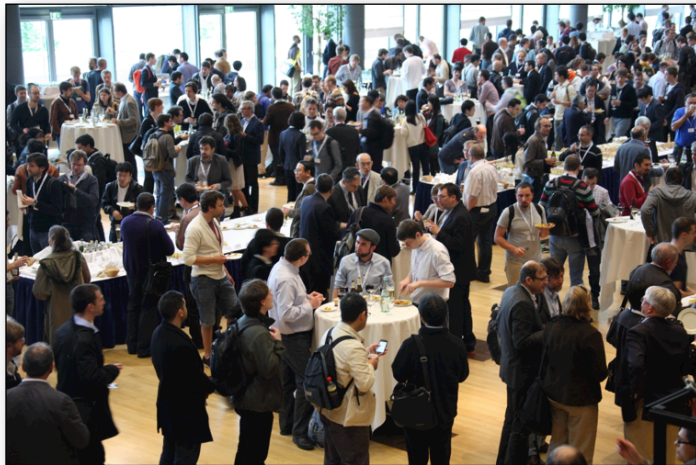
2014 INTERMAG Europe Plenary Lecture.



At the Reception.



At the Reception.



At the Reception.



At the Reception.

Spain Chapter News

By Victorino Franco, Spain Chapter Secretary / Treasurer

The symposium "Novel Frontiers in Magnetism" took place at the Centro de Ciencias de Benasque Pedro Pascual (Benasque, Spain) during February 9-15, 2014. Considered as the Spanish School of Magnetism and organized by the Sister Society Spain Magnetic Club (CEMAG), it gathered postgraduate students and postdocs from all over the Spanish region.

The focus of this edition of the Winter School was to give an overview of the frontiers of current research in magnetism, with topics ranging from spintronics to quantum information and

new materials and techniques. The Spain Chapter awarded 13 scholarships to Student Members of the IEEE Magnetics Society, which covered their registration fee at the event. It was an opportunity to foster the interaction between the youngest members of the Spanish magnetic community, favoring the exchange of ideas, the acquisition of new knowledge and, during the free time, participation in skiing sessions in the nearby Cerler ski resort. During the school the Spain Chapter promoted the membership in the IEEE Magnetics Society among the students and professors.



France Chapter News

By Bernard Dieny, France Chapter Chair

The first international workshop on magnetic skyrmions, SKYMAG 2014, was held in Paris during April 9-11, 2014, with the support of the France Chapter of the IEEE Magnetics Society. The workshop took place on the campus of Chimie ParisTech in the heart of the Latin Quarter and welcomed over 160 participants from around the world.

The idea behind the workshop was to bring together leading researchers from different disciplines but with shared interests – nanomagnetism, spintronics, surface science, neutron scattering,

synchrotron techniques and electron microscopy – in order to stimulate ideas for defining future research directions involving magnetic skyrmions. The meeting showcased some of the latest results in the field through 14 invited talks, 14 contributed talks, and 58 poster presentations, with a strong presence from the leading groups on magnetic skyrmion research. Recent work on the detection and manipulation of skyrmions in bulk and ultrathin film systems were presented, along with reports on advanced characterization techniques, novel material systems, and numerical methods.

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France Chapter News *continued from page 13*

The quality of the scientific program was excellent and the atmosphere relaxed and friendly, which helped to encourage rich and lively discussions amongst the participants. With the

excitement and continuing progress in the field, the Chapter is optimistic about taking part in another SKYMAG in the near future.

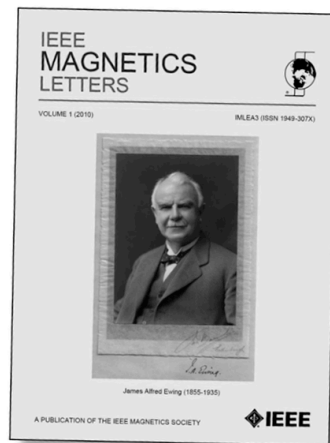


IEEE Magnetics Letters Update

By Ron Goldfarb, Publications Chair

As most *Magnetics Society Newsletter* readers know, *IEEE Magnetics Letters (IML)* is a rapid-publication, primarily electronic, peer-reviewed journal dedicated to magnetics articles of substantial current interest. Its scope is the physics and engineering of magnetism, magnetic materials, applied magnetics, design and application of magnetic devices, bio-magnetics, magneto-electronics, and spin electronics. Articles must be current and topical.

IML is now indexed in Science Citation Index (Web of Science), Scopus, SCImago, Inspec, SciFinder (Chemical Abstracts Service), Compendex, CrossRef, Google Scholar, Microsoft Academic Search, and other services. Beginning in 2015, *IML* will be included in Journal Citation Reports



(applied physics category).

Beginning this year, IEEE is posting accepted IML preprints on IEEE's Xplore platform, which represents official publication. After typesetting and author approval of page proofs, final versions replace the preprints on Xplore.

See <http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=5165412>

Please contact one of us with any questions or suggestions.

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Alexandru Stancu (alstancu@uaic.ro), Associate Editor

Conference Calendar

August 17-21, 2014 23rd Int. Workshop on Rare Earth & Future Permanent Magnets (REPM2014)
Annapolis, Maryland, USA
www.repm2014.com

September 2-4, 2014 8th International Conference on Sensing Technology (ICST 2014)
Liverpool, UK
www.ljmu.ac.uk/BLT/BEST/ICST2014/

November 3-7, 2014 59th Conference on Magnetism & Magnetic Materials (MMM 2014)
Honolulu, Hawaii, USA
www.magnetism.org

January 21-22, 2015 Magnetism 2015
Orlando, Florida, USA
<http://www.magnetismmagazine.com/conferences/>

May 4-8, 2015 INTERMAG
Beijing, China
www.intermagconference.com

June 1-5, 2015 9th International Conference on Power Electronics ECCE Asia (ICPE 2015)
Seoul, Korea
www.icpe2015.org

June 5-6, 2015 PELS Workshop on Emerging Technologies: Wireless Power (2015 WOW)
Seoul, Korea

To list your conference in the Newsletter Conference Calendar, please contact the Editor

About the Newsletter

The purpose of the IEEE Magnetics Society Newsletter is to publicize activities, conferences, workshops and other information of interest to the Society's members and other technical people in the general area of applied magnetics. Manuscripts are solicited from Magnetics Society members, conference organizers, Society Officers & other volunteers, local chapters, and other individuals with relevant material.

The Newsletter is published in January, April, July and October electronically on the Magnetics Society webpage at www.ieeemagnetics.org. Submission deadlines are January 1, April 1, July 1, and October 1 respectively.

Please send articles, letters & other contributions to the Newsletter Editor:

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