



## From The President

By Randall Victora, Society President

This is my final column as President of the IEEE Magnetics Society. On New Year's Day, I will become the Past President and Chairman of the Nominations Committee. Takao Suzuki (who recently joined the University of Alabama) will become President, and Liesl Folks (HGST) will become our first lady President-Elect. By that time, we will have completed our 2010 elections and we will know who will become the next Treasurer, ultimately to become President in 2015.



I end my term with a mixture of wistfulness and glee. The society president is that individual most able to impact the society by improving its operations, incorporating new individuals in its leadership, and changing its directions. This opportunity now belongs to my successors (Takao and Liesl).

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## 2010 IEEE Magnetics Society Election

By Kevin O'Grady, Nominations Chair & Randall Victora, Society President

This is the fourth opportunity for the membership of the IEEE Magnetics Society to elect Members-at-Large to the Administrative Committee. The IEEE Magnetics Society Bylaws provide that eight new members be elected annually to the Administrative Committee. The Nominating Committee submitted the names of the fourteen nominees listed on the enclosed ballot and the associated biographical sketches. On the ballot card, names are listed in randomized order.

Current Society Members are eligible to vote in the upcoming election and will receive IEEE Magnetics Society ballot material electronically for voting in the IEEE Magnetics Society

Election on 29 September 2010 from [ieec-magvote@ieee.org](mailto:ieec-magvote@ieee.org). At that time members will receive the instructions and a link for voting online. If members prefer to have the paper ballot material mailed to you, please e-mail your name, address, member number, and reference the Magnetics Society election ballot to [ieec-magvote@ieee.org](mailto:ieec-magvote@ieee.org) or call +1-732-562-3904. When the election ballots are sent out, your ballot will be physically mailed to you rather than sent electronically.

Vote for UP TO EIGHT candidates. Ballot cards or electronic ballots must be received at IEEE no later than 29 October 2010. Any returns received after this date will not be counted.

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## New Senior Members

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

June 2010: David Arnold, Bruno Azzerboni, Ovidiu Caltun, Marie-Claire Cyrille, Juergen Fassbender & David Larbalestier.

August 2010: Yunjie Chen & Stephen Gourlay.

September 2010: Atsufumi Hirohata, Andrei Slavin & Migaku Takahashi.

Senior Member is the highest grade for which IEEE members can apply. For further information, visit the IEEE Web site at:

[http://www.ieee.org/membership\\_services/membership/grade\\_elevation.html](http://www.ieee.org/membership_services/membership/grade_elevation.html)

## MML 2010 Meeting Review

By Peter Fischer, Conference Chair

The IEEE 7th International Symposium on Metallic Multilayers (MML2010) was held in Berkeley, CA, from September 19-24, 2010. Previous MML symposia were held in Kyoto (1992), Cambridge (1995), Vancouver (1998), Aachen (2001), Boulder (2004), and Perth (2007). This year, the IEEE Magnetics Society acted as 100% sponsor for the MML. Peter Fischer (LBNL Berkeley CA), conference chair of MML2010, welcomed more than 200 scientists from 18 countries, including 65 students. The scientific program featured nine plenary lectures, 57 invited talks and 169 poster presentations covering the latest achievements in spintronics, ultrafast spin dynamics, novel magnetic materials and magnetic applications.

The IEEE Magnetics Society encouraged particularly the participation of students by providing student travel grants to the following students: Levent Colak (U Delaware), Kab-Jin Kim (Seoul National University), Benjamin Lenk (U Goettingen Germany), Thomas Saerbeck (U Western Australia), Andreas Vogel (U Hamburg/Germany).

The IEEE Oakland East Bay Section provided additional financial support to allow students who are currently enrolled at Californian universities to attend the MML2010. The following students were selected for this award: Fan Yang (UC Davis), Helen He (UC Berkeley), Zoe Boekelheide (UC Berkeley), Rebekah Brandt (UC Santa Cruz), Sebastian Dietze (UC San Diego), Alexander Gray (UC Davis).

On the last evening of the symposium the MML participants enjoyed a memorable dinner cruise on the San Francisco Bay with a full moon adding perfectly to the illuminated skyline of downtown San Francisco.

A tour to Berkeley Lab facilities including the ALS, the National Center for Electron Microscopy (NCEM), and the Molecular Foundry concluded the MML2010 symposium. All participants were excited to learn about the many experimental capabilities for magnetism research available at LBNL.



# REPM'10 Meeting Review

By Gareth Hatch, Programme Committee Member

The 21st International Workshop on Rare-Earth Permanent Magnets and their Applications (REPM'10) was held in Bled, Slovenia during August 29 - September 2, 2010. Held every two years, the Workshop is probably the most important meeting on the calendar for those in academia, industry and elsewhere who work with rare-earth permanent magnets (REPMs) and magnetic materials. REPM'10 was chaired by Prof. Spomenka Kobe (Josef Stefan Institute, Ljubljana), and co-chaired by Dr. Boris Saje (Kolektor Group, Idrija).

Over 180 attendees from 24 different countries came to enjoy a program consisting of over 77 papers and posters, including 14 plenary & invited talks. Topics covered included current status & future prospects for REPMs, coercivity & physical properties, characterization & analysis, magnetism & nanotechnology, magnetocaloric materials, Dy-saving Nd-Fe-B magnets, RE-Co processing & properties, modeling & measurements, Nd-Fe-B & processing and magnet applications.

A tradition of the Workshop series is to have a copy of the Proceedings available for attendees as they arrive. This year was no exception, and Dr. Paul McGuinness (Josef Stefan Institute) and his team did a great job in producing a very nice hardback book & CD containing the papers from the Workshop.

In addition to the Workshop itself, a well-attended Satellite Meeting was held as part of the European Union FP7 Support

Action on "DIVERSITY: Improving gender diversity management in materials research institutions". This Meeting was co-chaired by Prof. Kobe and Prof. Jean-Marie Dubois, (Jean Lamour Institute, Nancy).

Another important tradition of the Workshop series is the combining of cultural elements of the host region and country, into the meeting. Attendees enjoyed some delightful violin music during the opening and closing sessions of the Workshop. Events included a Welcome Reception at Bled Castle, perched high above the other side of the lake from the Workshop venue, a Slovenian Evening in Radovljica and a tour of Ljubljana followed by the Conference Dinner at the Ljubljana Castle.

Prof. George Hadjipanayis (University of Delaware) gave the Keynote Address during the Conference Dinner, and Prof. Rex Harris (University of Birmingham) gave the Closing Remarks at the end of the meeting.

This was an excellent meeting for those involved in the world of REPMs, and special thanks go to the Organising Committee, which in addition to Prof. Kobe, Dr. Saje and Dr McGuinness also included Dr. Kristina Zuzek Rozman, Ms. Sanja Fidler, Ms. Darja Pecko, Mr. Marko Soderznik and Mr. Beno Podmiljsak (all of Josef Stefan Institute, Ljubljana).



## From The President *continued from page 1*

I will also miss the many special moments, such as bestowing recognition on others at our Awards ceremony, that are truly enjoyable. On the other hand, it demands much time, part of which is needed at inopportune moments to resolve issues that an incoming president might never guess would become their problem. Some experiences, such as settling with the Sacramento hotels over INTERMAG's inability to fill their room block because of the swine flu outbreak, will not be missed.

Perhaps the most disheartening part of the task is our interaction with IEEE. Although I made, and am continuing to make, an active effort to improve the overall IEEE (primarily through my membership on a small committee charged with restructuring the technical activities of the IEEE), I can now see that I am following in the path of some intelligent and well-meaning volunteers who have often failed in their efforts. It is very difficult for an unpaid volunteer to justify the amount of time necessary to significantly change this almost 400,000 member organization with its 1,000 employees. I fear that the IEEE is more bureaucratic and demanding now than when I first joined the Technical Activities Board 2 years ago. All I can hope is that the small steps some of us have taken, will ultimately add up to a large result.

The Magnetics Society itself is a large organization with 3,000 members and annual revenues of about \$2,000,000. The President therefore greatly relies on the skills of his committee chairs: without them, little can be accomplished. I would like to recognize and thank my committee chairs Bruce Gurney (Honors and Awards), Massimo Pasquale (Publications), Kevin O'Grady (Nominations), Albrecht Jander (Education), Chih-

Huang Lai (Membership), Takao Suzuki (Planning), Jordan Katine (Technical), and Treasurer Liesl Folks.

I am particularly thankful to Pallavi Dhagat (Publicity) and Jan-Ulrich Thiele (Finance) for performing their rather thankless tasks with diligence. I always appreciated their rapid responds to my requests for detailed information or action. Kaizhong Gao (Chapters) deserves special mention for accomplishing one of the goals of my administration: Magnetics Society Chapters in China. My Associate Publications chair Ron Goldfarb also deserves special mention for his incredible knowledge of IEEE procedures and for always keeping on top of the situation. While not a committee chair, Gareth Hatch deserves recognition for preparing an attractive and informative newsletter each quarter.

I am especially grateful to Diane Melton (Conference Coordinator/Executive Director) and Doug Lavers (Chair of the Conference Executive Committee). The Magnetics Society is distinguished by its large and successful conferences, particularly INTERMAG and MMM (with the American Institute of Physics). Well-organized conferences often require close attention and substantial skill. Particularly noteworthy is the large amount of unpaid time that Doug spends on making sure our conferences are well managed and anticipating problems before they cause damage.

Finally, I wish to acknowledge the unsung efforts of our numerous volunteers working on our many Magnetics Society and Conference Committees. I feel privileged to have worked with you.

*Randall Victora can be reached via email at [victora@umn.edu](mailto:victora@umn.edu)*

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## 2010 IEEE Magnetics Society Election *continued from page 1*

The online voting site will close at 4:00 pm ET. Be sure to cast your vote so that you then have expressed an opinion on the working of the AdCom and by whom you wish to be represented on the AdCom.

The candidates are as follows:

<b>Kannan Krishnan</b>	<b>Alexandru Stancu</b>
<b>John Moreland</b>	<b>Sung-Chul Shin</b>
<b>Osama Mohammed</b>	<b>Koki Takanashi</b>

<b>Bo Liu</b>	<b>Oliver Gutfleisch</b>
<b>Xiaoshan Wu</b>	<b>Ching-Ray Chang</b>
<b>Usha Varshney</b>	<b>Yoshishige Suzuki</b>
<b>Ermanno Cardelli</b>	<b>Dmitri Litvinov</b>

We thank you for participating and registering your vote.

*Kevin O'Grady can be reached via email at [kog1@york.ac.uk](mailto:kog1@york.ac.uk) and  
Randall Victora can be reached via email at [victora@umn.edu](mailto:victora@umn.edu).*



## Conference Calendar

Oct 25-29, 2010 International Conference on Magnetic Materials ICMM-2010  
Kolkata, India  
Web site: [www.saha.ac.in/cs/icmm.2010/web/Home\\_Page.htm](http://www.saha.ac.in/cs/icmm.2010/web/Home_Page.htm)

Nov 4, 2010 CAD for Electromagnetics Seminar  
Derby, UK  
Web site: [www.ukmagsoc.org.uk](http://www.ukmagsoc.org.uk)

Nov 10-12, 2010 Asia-Pacific Magnetic Recording Conference 2010  
Singapore  
Web site: [apmrc2010.dsi.a-star.edu.sg](http://apmrc2010.dsi.a-star.edu.sg)

Nov 14-18, 2010 55th Annual Conference on Magnetism & Magnetic Materials MMM 2010  
Atlanta, GA, USA  
Web site: [www.magnetism.org](http://www.magnetism.org)

Nov 29 - Dec 3, 2010 MRS Symposium: Magneto Calorics and Magnetic Cooling  
Boston, MA, USA  
Web site: [www.mrs.org/fall2010](http://www.mrs.org/fall2010)

Dec 4-8, 2010 Physical Phenomena at High Magnetic Fields  
Tallahassee, FL, USA  
Web site: [www.magnet.fsu.edu/mediacenter/seminars/pphmf2010/](http://www.magnet.fsu.edu/mediacenter/seminars/pphmf2010/)

Jan 19, 2011 24th Ewing Event: Superconductivity & Magnetism  
Oxford, UK  
Web site: [www.ukmagsoc.org.uk](http://www.ukmagsoc.org.uk)

Mar 1-2, 2011 Magnetism 2011  
San Antonio, TX, USA  
Web site: [www.magnetismmagazine.com](http://www.magnetismmagazine.com)

Apr 11-14, 2011 8th International Conference on Computation in Electromagnetics  
Wroclaw, Poland  
Web site: [www.cem2011.com](http://www.cem2011.com)

Apr 25-29, 2011 International Magnetism Conference INTERMAG 2011  
Taipei, Taiwan  
Web site: [www.intermagconference.com/intermag2011/](http://www.intermagconference.com/intermag2011/)

Aug 21-25, 2011 Moscow International Symposium on Magnetism  
Moscow, Russia  
Web site: [mism.magn.ru](http://mism.magn.ru)

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

# Hong Kong Chapter News

By Guijun Li, Zhiqiang Lei, Dennis Leung, Antonio Ruotolo & Philip Pong, Hong Kong Chapter Members

Recently, five visitors came to the Hong Kong Chapter and delivered lectures here. Prof. Qi Huang from University of Electronic Science and Technology of China gave a lecture on sensors and sensor network for smart grid on March 1 at the University of Hong Kong (HKU).



Prof. Chi-Kuen Lo from National Taiwan Normal University gave a lecture on inverse magneto impedance hysteresis of spintronics devices on August 3 at HKU.

Prof. Ko-Wei Lin from National Chung Hsing University gave a lecture on TEM investigation on magnetic thin films at HKU on July 5. He also gave a lecture on the effects of different oxide capped layers on the microstructure and magnetism of FePt thin films at Shenzhen University and this is the first seminar of Hong Kong Chapter at Shenzhen.



On September 1, Chapter Chair Dr. Kai-Zhong Gao from Seagate Technology gave us a seminar on thin film technology for perpendicular magnetic recording and beyond at HKU. Dr. Gao also gave a lecture titled perpendicular recording to heat assisted magnetic recording at City University of Hong Kong on September 3.

Former president of the IEEE Magnetics Society, Prof. Kevin O'Grady from the University of York, gave us a lecture on the York protocol investigation of exchange bias in polycrystalline films at HKU on July 8.



# Student Travel Grant Reports

Submitted by Bruce Gurney, Honors and Awards Chair

Each recipient of a student travel grants 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 Joint MMM/Intermag Conference held in Washington DC, that took place in January 2010.

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“I thoroughly enjoyed the Conference which allowed me to learn about recent activity in my field of research and communicate my contributions towards the development of next generation magnetic storage. It provided me with much needed information for planning my career and showed me other possibilities with magnetism like bio-labels and particle manipulation.”

-- Long Chang, University of Houston

“During this conference, I have interacted with many great scientists and researchers who came from all over the world and have presented their work in various research fields. I have received very good comments and suggestions from the audience during my oral presentation and I hope that these will help me to do my research in a much more precise way.”

-- Dipak Maity, National University of Singapore, Singapore.

“The Joint MMM/Intermag 2010 was definitely an excellent and successful conference, a lot of people with similar interests at one place. The intellectual wealth I gained was beyond my expectations, and I am truly proud for participating and presenting my work in an event of such importance. Best regards from Serbia!”

-- Aleksandar Meniceanin, Institute for Multidisciplinary Research

“Perhaps the memory which will last the longest was the award ceremony during the plenary session, in which awards were given to outstanding researches for their lifelong contributions to science. I will particularly remember the honoring of Professor Isaak Mayergoyz with the IEEE Magnetics Society Achievement Award, and his address to the audience.”

-- Marko Lubarda, UC San Diego

“I was pleased to find out that people were very kind to such a beginner as me. I was interested in many of the topics presented at the conference and it gave me an overview of the subjects that are under study in the community. What I will remember from the 11th Joint MMM-Intermag conference is that my own PhD subject is a logical part of a whole process of research taking

place in so many countries. Therefore I would like to thank the organizers for doing a great job and for permitting us to share our interests with all those of the community.”

-- Laurence Bianchini (IEF Paris Sud)

“Presenting three papers at this conference, I felt I was given the chance to share my research with the research community and received several engaging questions about my research from the audience and session chairs. In addition, I was able to discuss further details about my research and network with people at the Bierstube each night.”

-- Kelsey J. Miller, Carnegie Mellon University

“One of the best experiences that I bring back from the conference, was being awarded with the best poster presentation in my session. It was totally unexpected and it brought me great joy. I was really happy and grateful for the award, and that encouraged me, even more, to get the most of the conference.

-- Javier Alonso, University of the Basque Country

“I feel that it was a great opportunity for a young researcher like me. It really helped me to broaden my knowledge in the field of magnetic materials. The wide exposure that I got is going to be really useful in my future, post-doctoral period.”

-- Arabinda Haldar (IIT Bombay)

“It was enlightening to see research in the field of magnetism ranged from medical studies to basic physics. Overall the entire conference was very informative and very useful, especially the lecture on temperature dependence of magnetization reversal & magnetic recording by Dr. Jan Ulrich Thiele”

--- Shivaraman.R, SRM University

“I presented my own poster and was happy about the number of people I could present my work to. Here, too I was able to get to know new people as well as get in touch with some working on my area I already knew. I'm also looking forward to a possible collaboration discussed in that session. I am grateful to the IEEE for enabling me to attend this conference as it was certainly an important event for this final stage of my graduate studies in terms of broadening my insight into the field as well as in getting into touch with people and looking for post doc opportunities.”

-- Sebastian Schafer (Technische Universitaet Kaiserslautern)

“I spoke to six people working in similar areas at length at my poster presentation. Specific questions were asked by people

## SBMag

The Brazilian Society of Electromagnetism - SBMag has new chairman and directors. The new board was elected and sworn in on Nov 30, during the Brazilian Congress of Electromagnetism held in Vila Velha (ES) and is composed as follows: Aly Ferreira Flores Filho (UFRGS) - President, Antonio Nogueira Flavio Licaria,

(UDESC) - Vice President, Carlos Guilherme Neves (UNIPAMPA) - First Secretary; Valencia Mauricio Ferreira da Luz (UFSC) - Second Secretary, Roberto Petry Homrich (UFRGS) - Treasurer. This board will be head of SBMag the next two years.

— Renato Carlson

## Student Travel Grant Reports *continued from page 7*

having experience in the field and this gives me time to consider their questions and to decide what to do during the last six months of my research. It also made me aware of things that I need to include in my forthcoming paper.”

— *Josephat Kalezhi (U. Manchester)*

“Apart from the excellent technical quality of the conference, the social interactions are also worth mentioning. The Coffee sessions in the morning played a significant role in oozing out any kind of jet lag experienced due to international travelling and at the same time discussing this with people of similar symptoms.”

— *Shikha Jain, National University of Singapore*

“The best part of the conference was speaking with the scientists about their talk during the receptions. I had many discussions with other scientists who seemed very excited about their work. While speaking with them I had many ideas for collaborations and new experiments. To make a great trip even better I received 3 job offers in a single day while at the conference.”

— *Erik Shipton, UCSD*

“I enjoyed the Bierstube, social evenings, chatting with fellow students & networking. The event was well organised from the beginning. I would definitely recommend taking part in MMM/Intermag conference to every student. It shows how broad the field of magnetism is and at the same time how important role everyone’s research plays. It is great opportunity to look at one’s own work from a different perspective and share experience.”

— *Tomasz Kutrowski (Cardiff U)*

“During the Conference, I heard plenty of impressive talks on the topics relevant to my work or I am interested in. My work is mainly about write heads, but I also have learned the development in other aspects of magnetic storage, such as STT, media and so on. I also learned a lot about other storage means, phase change storage, for instance. I have the chance to get to know what has been achieved and what the bottlenecks are in the research as well as some distinguished people.”

— *Wang Sumei, Tsinghua University (Beijing)*

## 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](http://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:

Gareth Hatch  
Technology Metals Research, LLC  
180 S. Western Ave #150  
Carpentersville, IL 60110 USA

Email: [g.p.hatch@ieee.org](mailto:g.p.hatch@ieee.org)

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