



## From The President

By Takao Suzuki, President of the Magnetics Society

First of all, INTERMAG 2012, which was held in the beautiful city of Vancouver, Canada, successfully took place in May with a total of more than 1200 attendees. I would like to thank the Conference Chair, Jan-Ulrich Thiele and everyone who participated, for their outstanding commitment and hard work for the success of this conference. I also



would like to congratulate Hideo Ohno (Tohoku University) who received the IEEE David Sarnoff Award; Kannan Krishnan who received the IEEE Donald G. Fink Award; and John Slonczewski who received the Magnetics Society Achievement Award, presented at the awards ceremony during

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## INTERMAG 2012 Plenary Session

By Bruce Gurney, Honors & Awards Committee Chair

This year's plenary session took place during the afternoon of May 9, 2102 in the Vancouver Convention Center. In this session all participants had the opportunity to gather together to participate in the Society activities of the conference organizer, the IEEE Magnetics Society. The session was chaired by the Conference Chair Jan-Ulrich Thiele. The session included a remembrance of key figures in the Society that recently passed away, Awards give by the IEEE, the presentation of Awards from the Society, and a lecture from Joachim Stohr, director of LCLS at the SLAC National Accelerator Laboratory.

To begin the session, Jan-Ulrich Thiele described the conference statistics. A total of 1,381 abstracts were accepted from 46 countries and organized into 140 sessions. There were more than 1,200 registrants, including attendance from Europe (25%) and a strong showing from Asia (58%). Dr. Thiele took the opportunity to thank the many volunteers that made InterMag 2012 such a success. The audience joined him in recognizing

the session chairs (Pallavi Dhagat, Claudia Felser and Jian Shen), the treasurer (Petru Andrei), publication chair (Tom Thomson) and his editors (Alina Deac, David Dorrell, Oliver Gutfleisch, Min Fu Hseih, Ronnie Jansen, Johannes Paulides, S.N. Piramanayagam, Ciro Vosone, Dan Wei, and Jong Ching Wu), the IEEE Transactions on Magnetics editor (Massimo Pasquale), exhibits chairs (Kaizhong Gao, Wendy Walker), publicity chair (Erol Girt), student travel (Matt Carey, Erol Girt, Petru Andrei), tutorial (Mingzhong Wu), student awards (Mingzhong Wu, Bruce Gurney), and conference management (Diane Melton).

Before the presentation of awards began, two long-time contributors to the Magnetics Society who recently passed away were remembered. Society President Takao Suzuki recalled the many ways in which Gordon Slemon contributed to the Society, including member of the AdCom, Editorial Board of the Transactions, Awards Committee and INTERMAG 1974

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# INTERMAG 2011 Plenary Session *continued from page 1*

Conference Chair. Among his many honors were the Magnetics Society Achievement Award and IEEE Nikola Tesla Award. Honors and Awards chair Bruce Gurney then recalled the work of J. Doug Lavers, who was chair of the conference executive committee for many years and key planner for all Magnetics Society conferences, including this one. Through the years he also served on the Administrative Committee and Editorial Board of the Transactions. He was an IEEE Life Fellow.

Two IEEE Awards were presented. These awards are given by the Board of Directors of the IEEE for exceptional achievement, with candidates drawn from the entire membership of the IEEE. Representing the Board was Magnetics Society President Takao Suzuki. The Daniel G. Fink Prize, which is given for the most outstanding survey, review or tutorial paper published throughout all IEEE publications in 2011, was presented to Kannan Krishanan. His article, "Biomedical Nanomagnetism: A Spin Through Possibilities in Imaging, Diagnosis and Therapy" was inspired by his Magnetic Society Distinguished Lecture, delivered throughout the world in 2010. Next, Hideo Ohno was presented with the IEEE David Sarnov Award, given for exceptional contributions to electrons. Dr. Ohno was cited for "seminal contributions and leadership in bridging semiconductor electronics with magnetism and spintronics".

The Magnetics Society Achievement Award is given each year to a Society Member who has made extraordinary contributions to the field of magnetism. Dating back to 1981, the award has been given to distinguished scientists and engineers such as Floyd Humphrey, Emerson Pugh, Bill Doyle, Neal Bertram, and last year to Jimmy Zhu. The Achievement Award is the highest honor given by the Magnetics Society. This year the award goes to John Slonczewski for "contributions to magnetic devices and storage, including the prediction of the spin transfer torque effect in magnetic thin films, theory of magnetotransport and interpretation of magnetic reversal". The award, which includes a certificate and cash prize, was presented by President Takao Suzuki, who touched on how Dr. Slonczewski's many works on magnetic recording device physics and basic magnetism have influenced magnetic research today.

The seven Magnetics Society members recently elevated to the grade of IEEE Fellow were introduced next. The grade of Fellow is conferred by the IEEE Board of Directors on persons with an extraordinary record of accomplishment, and in any year less than one-tenth of one percent of the IEEE

membership can be so honored. The new Fellows for this year are David Davidson, Eric Fullerton, Donald Gardner, Reinhard Lerch, Chingting (Chris) Mi, Andrei Slavin and Thomas Weiland. Congratulations!

Vince Harris, the Distinguished Lecture Coordinator next thanked the 2011 Distinguished Lecturers (DLs) for their service to the Society and the magnetics community by collectively delivering more than 210 lectures in 19 countries 2011. Oliver Gutfliesch, Peter Fischer, Axel Hoffmann, and Masaaki Futamoto, who each received certificates, delivered lectures on topics ranging from magnetic materials for sustainable energy, to recent advances in x-ray microscopy, spin currents, and growth of magnetic films. This year's DLs were also introduced: George Hadjipanayis, Masahiro Yamaguchi, Shinji Yuasa and Gerrit Bauer have already delivered many lectures.

Jan-Ulrich Thiele, Chair of this 2012 INTERMAG conference also thanked Ching-Ray Chiang, chair of the 2011 INTERMAG Conference, for organizing a successful and exciting conference in Taipei last year.

Members rotating off of the Society's Administrative Committee were thanked, and came to the stage where they received audience applause and were presented with Certificates of Appreciation. They are Richard Dee, Josef Fidler, Usha Varshney, Vince Harris, Sarah Majetich, Kevin O'Grady, Laura Jane Heyderman, and John Snyder. Administrative Committee chairs are appointed by the President and oversee the ongoing activities of the Society, and are key leaders that keep the Society running smoothly. The following outgoing committee chairs were thanked for their many contributions over many years, and presented with certificates of appreciation: Massimo Pasquale (Publications Chair), Albrecht Jander (Education Committee Chair), Jan Ulrich Thiele (Finance Chair), David Jiles (Editor-in-Chief) and John Nibarger (GOLD Representative).

The Magnetics Society sponsors a summer workshop each year where some 50 students attend a 3-day workshop given by some of the best scientists working in magnetism. The Student Workshop in 2011 was held in New Orleans, under the leadership of Leonard Spinu. He was thanked with a Certificate of Appreciation.

Next, Mingzhong Wu (Education Committee Chair) introduced the 2012 Student Best Presentation Award Finalists. Six finalists

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# Gordon Richard Slemon (1924-2011)

By Takao Suzuki, President of the Magnetics Society

Gordon Richard Slemon was born on August 15, 1924 in Ontario, Canada and passed away on September 26, 2011, age 87.

Prof. Slemon received the Bachelors and Masters degrees in electrical engineering in 1946 and 1948 respectively, from the University of Toronto, and received a PhD from the University of London in 1952. He was a Professor at the University of Toronto from 1955 through 1990, and Dean of the Faculty of Applied Science and Engineering from 1979 to 1986.

Prof. Slemon gave much of his time to the Society. He was a member of the AdCom for many years, a member of many of the Societies other Committees, and a member of the Editorial Board of the IEEE Transactions on Magnetics.

Prof. Slemon was the Chair for the INTERMAG Conference in Toronto in 1974. He was awarded the IEEE Nikola Tesla Award in 1991 and the IEEE Magnetics Society Achievement Award in 1997. In 2011, Prof. Slemon received the Engineering Institute of Canada's highest award, the Sir John Kennedy Medal. In recognition of his lifetime research contributions, in 1994 he was made an Officer of the Order of Canada for his work. He was also a Fellow of the IEEE and a Fellow of the

Canadian Academy of Engineering.

Prof. Slemon was a widely recognized expert on the design and modeling of poly-phase machines. He published over 175 scientific papers, commencing with a paper that was published in 1949, many of which appeared in the IEEE Transactions on Magnetics.

The quality of his publications was always superb, as evidenced by Prize Paper Awards by the IEEE Industry Applications Society in 1986, 1987 and 1988.

Prof. Slemon was an outstanding lecturer. Many of his ideas were incorporated into the several textbooks that he authored. These texts extended his influence well beyond the several thousand undergraduate students that he taught at the University of Toronto.

We all miss Prof. Gordon Richard Slemon.



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## INTERMAG 2011 Plenary Session *continued from page 3*

for the Student Best Paper Award 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. Hao Wu (Arizona State), Peng Li (U. of Notre Dame), Michael Koerner (Helmholtz-Zentrum), Nikita Gaur (National U. Singapore), Satoru Emori (MIT) and David Ball (Helmholtz-Zentrum) were asked to come to the stage and receive applause from the audience. Each gave a contributed presentation as part of the regular sessions of the conference, and was judged on the quality of the work and on their presentation by a panel of judges, with results to be announced after the conference.

The Magnetics Society gives travel grants for students to attend Magnetics Society sponsored conferences. Generally, these are students in PhD or Masters-only programs within about a year of graduating. At INTERMAG 2012 students were sponsored in a wide range of fields of magnetics and from universities from around the world. They were Hememal Balaraman (SSN), Joe Barker (U. of York), Kerstin Benert (Helmholtz Zentrum), Chen Xiaoye (U. of Colorado), Nikita Gauer (National U. of

Singapore), BonGun Kim (U. Korea) Michael Koerner (Helmholtz-Zentrum), Chandresekhar Murapaka (Nanyang Technological U.), Subhra Paul (U. N. Carolina), Brock Peterson (Georgia Tech), Mariana Proenca (I. Ciencia Materiales Madrid), Indra Purnama (Nanyang Technological U.), ChanHyuk Rhee (Kookmin U.), Hunter Sims (U. of Alabama), Brajalal Sinha (ChungNam National U.), Yiyun Sun (Colorado State), Adrien Vaysset (CEA/Grenoble), SunWook Yoon (Kookmin U.), Zen Zheng (U. of Houston).

The inspiring Plenary Lecture, entitled "Exploring the Ultrafast Magnetic Nanoworld with X-Rays", was delivered by Joachim Stohr, director of Linac Coherent Light Source at the SLAC National Accelerator Laboratory in Stanford California. He described the intimate relationship between magnetism and angular momentum, and how x-ray light pulses can be used to detect the time evolution of magnetic systems, including spin torque switching and recent evidence for all optical reversal of magnetization.

# From The President *continued from page 1*

this conference. I also note that at the beginning of the award ceremony, a moment of silence was held in remembrance of our colleagues, Doug Lavers, former Conference Executive Committee (CEC) Chair, and Gordon Slemon, a former IEEE AdCom member and the Conference Chair of INTERMAG 1974, held in Toronto, Canada, who both passed away in 2011 (please see the article for Prof. Slemon in this issue).

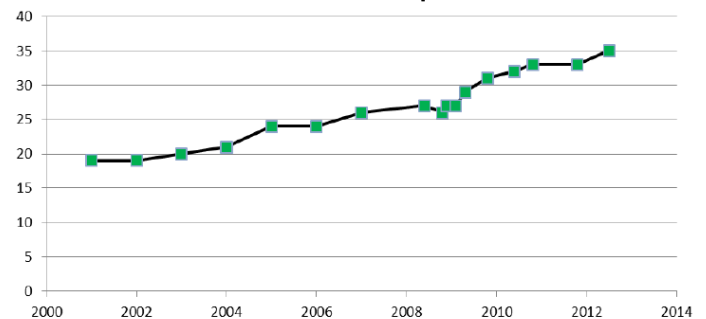
Secondly, I wish to give a brief update regarding the status of our Society. Regarding conference activity, CEC Chair Massimo Pasquale has successfully brought the status of the CEC back to normal through his ceaseless effort following Doug's sudden death, our former CEC Chair. The CEC is responsible for all the conferences, whether fully sponsored (such as INTERMAG and TMRC), jointly sponsored (such as MMM), co-sponsored (such as SMMM 2013 and CEFC 2014), or technically co-sponsored (such as EMSA 2012 and MML2013). The total number of all conferences involved is more than a dozen, some of them taking place in 2016. Some of you may not be familiar with those abbreviated conference names, but that is okay, since I just wanted to let you know that our CEC has been handling so many conferences! For this heavy responsibility, and also in view of the importance of reflecting regional developments on our Society's strategy, the CEC has recently formed a new team consisting of liaisons representing North America, Asia and Europe. They are Vivian Ng (Asia), Katy Barmak (North America), and Olga Kazakova (Europe). I am grateful for their acceptance of this post, and we are all looking forward to receiving their input.

Regarding the 2012 financial status (income and expenditures), it is too early to say anything concrete at this stage, but things appear to be similar to the previous years. Next year's budget should be completed by the IEEE Finance Department around the middle of August. The 2013 budget for committee expenses is about \$230k, a slight decrease as compared to the current 2012 budget.

As of November 2011, the total number of our Society's membership was about 3,000, unchanged from the previous year. However, if we look into the regional changes, Region 10 (Asia and Pacific regions) had about a 1.4% increase, whereas Regions 1-6 (USA) had about a 5% decrease. Region 9 (Latin America) and Region 8 (Europe, Middle East and Africa) saw +5% and +4% changes, respectively. This trend is similar to changes in the entire IEEE Society Membership (+0.5% as

compared to 2010), of which the total membership is now about 350,000. I would like to note that IEEE membership is now about 410,000, which has increased by 2.5% in the same period. What this means is that there is a substantial number of members who are not associated with any technical societies. One of the strategies that IEEE was working on was a so-called Bundle Membership, which was designed to offer both the IEEE and a Society Membership at the time of enrollment. However, this Bundle Membership idea has not been realized as of yet, and it is still open for discussion. The Membership Committee Chair, Peter Fischer, has been working hard to increase the membership through various initiatives.

**Number of Chapters**



While the total number of Magnetics Society memberships has not changed much, the total number of Chapters is increasing (see the figure above) - 35 as of May 2012. Each Chapter plays a key role in recruiting new members and promoting members who may be eligible for higher grades of IEEE. Also, they offer opportunities through outreach programs such as seminars and lectures to the local community; in particular, invitations for the Distinguished Lecturers to come to local regions are very important. The Chapter Chair, Hiroaki Muraoka, has been encouraging each Chapter Chair to follow this idea, and we already have seen positive results in the past few years.

The Education Committee, led by Chair Mingzhong Wu, who took office in January, is organizing the 2012 Summer School at SRM University, Chennai, India, from July 22 through 27. The nine lectures covering various fields will include fundamental magnetism, magnetization dynamics, spintronics, magnetic recording, nano-magnetism, modeling, Biomagnetism, high-frequency materials, and superconductivity. I am very pleased to see that preparation has been well-underway, and there are about 110 students selected from around the world who have

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been accepted to attend the school. Summer School 2013 is under discussion for details.

In addition to the Summer School, the Education Committee is responsible for other outreach activities such as the Best Student Presentation Awards at each INTERMAG, and also for coordinating a tutorial session at the joint MMM-INTERMAG conferences. Mingzhong and the Committee members are very motivated to work hard and I look forward to hearing more on their initiatives.

The Nominations Committee, led by Chair Randy Victora (Past President), has finalized the ballot of the twelve candidates for AdCom members for the term of 2013-15. The election will start soon, and you will be notified by the IEEE office regarding details. I would like to encourage all of you to vote.

I recently returned from the June IEEE TAB meeting held in Boston. Among several things of note, I am particularly interested in informing you about our proposal made in February 2012, for the request for a rapid publication of IEEE journals and also for the publication of authors' names in Asian characters. The proposal made at the TAB meeting in February was the following:

*"The Magnetics Society would like the support of its sister societies in urging IEEE staff to promptly implement two options to help attract and retain authors. (1) Some IEEE journals operate on a rapid-publication*

*model and are able to complete the editorial review process in 2 weeks. However, IEEE currently requires 6 weeks to process a manuscript for electronic publication. IEEE's current "rapid posting" service is not a satisfactory solution for some journals. Proposed resolution: IEEE staff should, as soon as possible, offer an optional 3-week rapid-processing service at an appropriate cost. (2) Some professional societies offer Asian authors the option to include their names in either Chinese, Japanese, or Korean characters, following their names in Latin characters. A large percentage of IEEE authors are currently from Asia. Proposed resolution: IEEE staff should, as soon as possible, implement a procedure for interested editors to allow authors to include their names in Asian characters."*

At the June TAB meeting, the IEEE made it clear that a more rapid process of about 3-4 weeks for editing manuscripts has already been in effect, which took more than six weeks.

Regarding Proposal 2 above, the Committee is working on this matter, and it appears to be in line with the IEEE explanation. I am grateful for Ron Goldfarb (Publications Committee Chair) for his leadership in improving the publication process for all of the IEEE journals. Soon we hope we will have both English and Asian language-characters as the authors' names in the journal papers, which is indeed great!

I look forward to receiving your feedback and send you my best regards.

Takao Suzuki can be reached via: [takaosuzuki@mint.ua.edu](mailto:takaosuzuki@mint.ua.edu)

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## INTERMAG 2012 Student Travel Grant Reports

Submitted by Bruce Gurney, Honors & Awards Committee Chair

Each recipient of a student travel grant award from the Society, is asked to write a brief summary of their conference experience. The following are extracts from the summaries written after the 2012 INTERMAG Conference in Vancouver.

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"The discussion with other scientists from all over the world has benefited me with the enhancement and extension of my knowledge in a short time. And also the most unforgettable part of the conference was the plenary session. It gave me the chance to know the outstanding researchers and their excellent work."

-- Xiaoye Chen (U. of Colorado)

"The conference was academic and professional, and everything was well-organized. In this conference, I got to know a lot of people, either from my research area of magnetic recording or related fields. It was a great opportunity for discussion and for learning from others."

-- Zhen Zheng (U. of Houston)

"As a researcher in microelectronics and the applications of strong magnets in microstructures, Intermag gave a great source of knowledge on magnetics from the other side of the puzzle. I could see better how magnetics researchers view the micro-world and how I could apply new and different systems as micro-devices. Thank you again for the student travel grant."

-- Brock Peterson (Georgia Tech)

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# INTERMAG 2012 Student Travel Grant Reports *cont'd from page 5*



"[INTERMAG 2012] provided me the opportunities to learn about the most advanced topics in the diverse areas of basic and applied magnetics, present my work to other researchers from all over the world, and to meet my new and old friends in the community. Symposia sessions are my favorite ones among others. I felt excited to ask questions and express my ideas in the presence of so many smartest researchers."

-- *Yiyun Sun (Colorado State)*

"I had a wonderful experience and enjoyed the conference thoroughly. I found the conference atmosphere was very friendly. It gave me an exposure to the recent scientific activities in the vast field of magnetism. I could talk to many eminent scientists and I also had an opportunity to talk to people for my postdoctoral position. Thank you for your support without which I could not have participated in the conference."

-- *Sayak Ghoshal (IISC)*

"Since I am now in my last year of my PhD programme, I was very happy to be able to present my work in the scientific community. My talk received a very positive response. As a result of the questions and comments from the audience and several other participants with whom I discussed during the remainder of the conference, I can now include the conclusions of several fruitful discussions with experts in the field in my manuscript which is currently being prepared for publication."

-- *Kerstin Bernert (Helmholtz-Zentrum)*

"I appreciated a lot the lunch with the experts as it brought closer together the connections between students and experts, giving a new vision of the difficulties and achievements one may encounter throughout a scientific research career. I hope to meet all again at the next INTERMAG conference!"

-- *Mariana Proenca (I. Ciencia Materiales Madrid)*

"I used this opportunity to present my recent research results to a broad audience that gave me a lot of useful feedback leading also to further discussions. Additionally I met many people, shared ideas and interpretations with them as well as established new contacts that may result in new collaborations. Also the conference gave me a deeper insight to other magnetism-related research topics and the state of the art."

-- *Michael Körner (Helmholtz-Zentrum)*

"Meeting the micro-magnetic community was also very important for me. I had fruitful discussions with people using similar methods as we use in our code, it opened the way to possible future collaborations. Moreover, Vancouver is a very beautiful city; attending a conference in such a nice environment was very pleasant."

-- *Adrien Vayssset (CEA/Grenoble)*

It was my privilege to stand before the pioneers in this field and present my research work. I could learn a lot from the

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# INTERMAG 2012 Student Travel Grant Reports *cont'd from page 6*

presentations of research students all over the world which help me in further improving my PhD work. I have a few friends who are working in the same area during the conference. It also helped me to update my knowledge in this field. It is a great opportunity to attend the talks by various scientists in the field of magnetism which inspire me to continue my career in this field."

-- Chandrasekhar Murapaka (*Nanyang Technological U.*)

"It was an amazing and knowledgeable experience to be with some great experts around the world and interact with them personally on their research expertise. For my own presentation the amount of feedback I received from them had been very

insightful and i something I will always keep in mind in my future research work."

-- Nikita Gauer (*U. N. Carolina*)

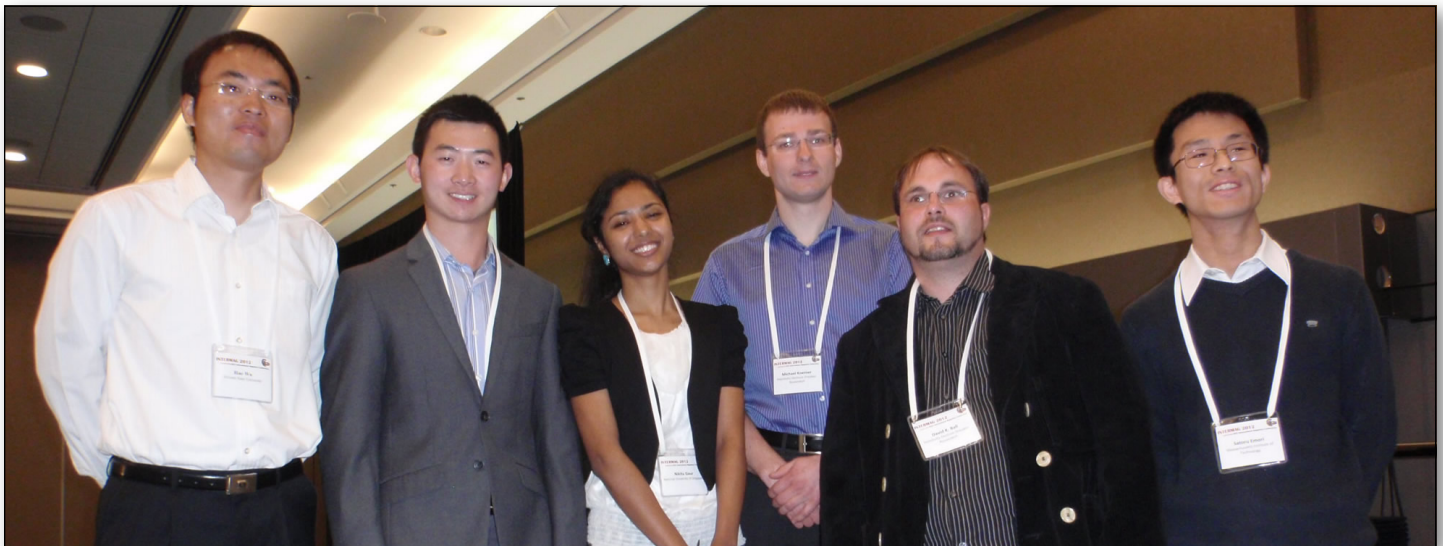
"It provided an ideal opportunity to meet with renowned experts from all over the world which not only enhanced my knowledge of the latest research carried out in different universities and industries but also helped me to build a good network with the technical experts. There were plenty other poster and oral presentations in the field of motors, actuators and drives, which is my area of interest, that drew my attention."

-- Subrha Paul (*U. N. Carolina*),

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## INTERMAG 2012 Best Student Presentation Finalists

By Bruce Gurney, Honors & Awards Committee Chair



The selection of the winner of the Best Student Presentation Award was made at the 2012 INTERMAG conference. All presentations were excellent, and the finalists contributed papers of great interest to conference attendees. Congratulations to the finalists and winner!

**Winner:** Satoru Emori (MIT)

**Title:** Activation energy barrier for micron scale domain motion in Co/Pt multilayer nano-strips (EF-01).

**Finalist:** Hao Wu (Arizona State)

**Title:** Integrated RF on-chip inductors with patterned CoZrTaB films (GH-02).

**Finalist:** Peng Li (U. of Notre Dame)

**Title:** Direct measurement of magnetic coupling between nano-magnets for NML applications (HF-05).

**Finalist:** Michael Koerner (Helmholtz-Zentrum)

**Title:** Morphology induced 2 magnon scattering in NiFe thin films (HF-07).

**Finalist:** Nikita Gauer

**Title:** Effect of ion implantation in magnetic media studied by first order reversal curves (AC-10)

**Finalist:** David Ball

**Title:** Tailoring the magnetic damping and anisotropy of Py deposited on GaSb nano-cones (AB-08).



# INTERMAG 2012 Plenary Session: In Pictures

Submitted by Bruce Gurney, Honors & Awards Committee Chair



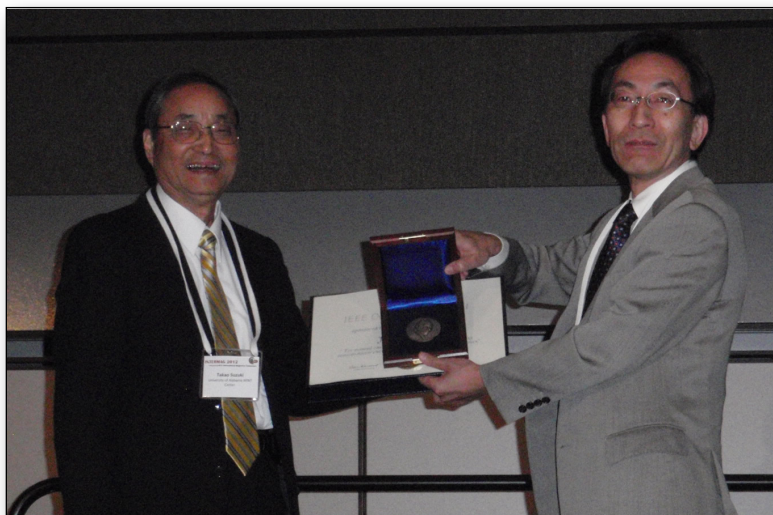
**John Slonczewski receives the 2012 Magnetics Society Achievement Award from Society President Takao Suzuki.**



**Kannan Krishnan receives the 2012 IEEE Donald G. Fink Prize from Society President Takao Suzuki, representing the IEEE Board of Directors.**



**Joachim Stohr delivering the 2012 INTERMAG Plenary Lecture.**



**Hideo Ohno receives the 2012 IEEE David Sarnov Award from Society President Takao Suzuki, representing the IEEE Board of Directors.**



**2011 Magnetics Society Distinguished Lecturers receive Certificates of Appreciation from Bruce Gurney, Honors & Awards Committee Chair. Shown from left to right are Peter Fischer, Bruce Gurney, Masaaki Futamoto and Oliver Gutfleisch (Axel Hoffmann not shown).**

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# INTERMAG 2012 Plenary Session: In Pictures *cont'd from page 8*



**David Jiles, outgoing Editor-in-Chief of the IEEE Transactions on Magnetics, receives a Certificate of Appreciation from Bruce Gurney, Honors & Awards Committee Chair.**



**New IEEE Fellows Andrei Slavin and John Gardner.**



**Outgoing Committee Chairs Jan-Ulrich Thiele, Albrecht Jander and Massimo Pasquale receive Certificates of Appreciation from Bruce Gurney, Honors & Awards Committee Chair.**

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## Review of the Constitution and Bylaws

By Liesl Folks, President-Elect of the Magnetics Society

The Administrative Committee (AdCom) of the Magnetics Society plans to undertake a review of the documents that govern its operations, the Constitution and Bylaws, in the second half of 2012. The objective is to ensure that these documents remain relevant to our operations, and provide appropriate direction to the AdCom on the fundamental principles and established precedents by which the organization should to be governed.

We encourage and welcome input from any Member on this matter. The documents are available for download and review on the Society website at [www.iecemagnetics.org](http://www.iecemagnetics.org), under the Governance link.

Please return your suggestions to the President-Elect, Liesl Folks, at [liesl.folks@hgst.com](mailto:liesl.folks@hgst.com), by no later than 31st of July, 2012.

## Conference Calendar

- Aug 20-22 2012 23rd IEEE Magnetic Record Conference TMRC 2012  
San Jose, CA, USA  
Web site: [www.dssc.ece.cmu.edu/TMRC2012](http://www.dssc.ece.cmu.edu/TMRC2012)
- Aug 26-29, 2012 International Conference on Microwave Magnetics ICMM 2012  
Kaiserslautern, Germany  
Web site: [www.icmm2012.de](http://www.icmm2012.de)
- Sep 2-5, 2012 22nd Workshop on Rare-Earth Permanent Magnets And Their Applications  
Nagasaki, Japan  
Web site: [www.snff.or.jp/REPM2012/](http://www.snff.or.jp/REPM2012/)
- Sep 9-14, 2012 Joint European Magnetic Symposia 2012  
Parma, Italy  
Web site: [www.jems2012.it](http://www.jems2012.it)
- Oct 31 - Nov 2, 2012 Asia-Pacific Magnetic Recording Conference APMRC 2012  
Singapore  
Web site: [apmrc2012.dsi.a-star.edu.sg](http://apmrc2012.dsi.a-star.edu.sg)
- Nov 11-14, 2012 Fifteenth Biennial IEEE Conference on Electromagnetic Field Computation  
Oita, Japan  
Web site: [www.cefc2012.org](http://www.cefc2012.org)
- Nov 14-19, 2012 International Conference on Megagauss Magnetic Field Generation  
Maui, HI, USA  
Web site: [www.megagauss.org](http://www.megagauss.org)
- Dec 18-21, 2012 Sixth International Conference on Sensing Technology ICST 2012  
Kolkata, India  
Website: [seat.massey.ac.nz/conferences/icst2012/](http://seat.massey.ac.nz/conferences/icst2012/)
- Jan 14-18, 2013 12th Joint MMM/INTERMAG Conference  
Chicago, IL, USA  
Web site: [www.magnetism.org](http://www.magnetism.org)
- Feb 7-8, 2013 Magnetics 2013  
Orlando, FL, USA  
Web site: [www.magneticsmagazine.com/conferences/](http://www.magneticsmagazine.com/conferences/)

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

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

## New Senior Members

Senior Member is the highest grade for which IEEE members can apply. The following members of the IEEE Magnetics Society were recently elevated to the grade of Senior Member.

Apr 2012: Zhaohui Chen, Georg Schmidt and Charles Sullivan.

Jul 2012: Luca Di Rienzo, Charles Fadley, Claudia Felser, Horia Gavrilă, Peter Lee and Grzegorz Ombach.

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)

## Are You Ready for Senior Member Grade?

By Peter Fischer, Membership Committee Chair

Are you an engineer, scientist, educator, technical executive, or originator in an IEEE-designated field, such as magnetics? Do you have experience which reflects professional maturity? Have you been in professional practice for at least ten years? Have you shown significant performance over a period of at least five of their years in professional practice?

If you can answer these questions with YES, then you are eligible to be elevated from member to senior member grade and the Magnetics Society urges you to consider applying for that. The process is easy, all you have to do is sign into your IEEE account and start the online application via the Senior Membership portal at [http://www.ieee.org/membership\\_services/membership/senior/application/application\\_index.html](http://www.ieee.org/membership_services/membership/senior/application/application_index.html).

You need to identify three active IEEE members holding the grade of IEEE Senior member, Life Senior member, Fellow or

Life Fellow. The Membership Committee Chair can help you identifying such individuals in our society.

Why would you want to apply for Senior Member? First, you are professionally recognized by your peers for technical and professional excellence. Second, you will receive a Senior Member Plaque, which you can proudly display for colleagues, clients or employers and your employer will receive (upon your request) a letter of commendation. You will further receive a \$25 coupon which can be used to join one new IEEE society and your elevation will be announced in our newsletter.

And last but not least, our Magnetics Society will appear professionally stronger within IEEE, the more Senior Members that we have.

Please contact Peter Fischer if you have any further questions via email at [peter.fischer@ieee.org](mailto:peter.fischer@ieee.org)

## 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 and 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 and other contributions to the Newsletter Editor:

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