

## From the President

By Liesl Folks, President of the Magnetics Society

Many of you will now be preparing to attend the upcoming INTERMAG meeting in Dresden during May 4-8, which promises to be a highly stimulating conference, judging from the great program which is available online. If you have not already made your plans to attend, I encourage you to do so – INTERMAG is the flagship conference of the Magnetics Society, and it grows stronger each year as we deepen our understanding of the physics of magnetism and magnetic materials, and the related applications expand into a wider array of technical areas.



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## 5th Non-Volatile Memories Workshop (NVMW 2014)

By Eric Fullerton, San Diego Chapter Chair

During March 9–11, 2014, researchers from the University of California, San Diego (UCSD) hosted the 5th Annual Non-Volatile Memories Workshop (NVMW 2014) on the UCSD campus in La Jolla, California.

Advances in data-storage technology have been crucial to the evolution of the modern information age, enabling and accelerating the invention of new information-related applications in consumer entertainment, personal and business computing, enterprise data management, and scientific research. High-capacity, non-volatile, solid-state drives (SSDs) are in the process of revolutionizing this world of data storage.

SSDs have a number of features that complement those of conventional disk and tape drives, notably enhanced shock resistance, reduced power consumption, and faster data access. Although currently less competitive in some storage applications

with respect to cost per bit, write latency, and product lifetime, continuing advances in SSDs based upon several non-volatile memory (NVM) technologies are setting the stage for a revolution in how computer systems and applications access and manipulate persistent data. Improved Flash memories – along with emerging technologies such as magnetic RAM (MRAM), phase-change memory (PCM), spin-transfer torque memory (STTM), resistive RAM (RRAM), and the memristor – are driving designers to rethink how they integrate storage devices into computing systems, how operating systems manage data, and how applications create and process information. Realizing the full potential of NVM technologies is an exciting and important challenge with enormous societal consequences.

As in the preceding workshops in the NVMW series, the primary objective of this one was to encourage the development of a “vertical” vision for research on the role of NVM

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# From The President *continued from page 1*

Chairs Ludwig Schultz and Michael McHenry have put together a terrific program for the conference in the great city of Dresden, and I look forward to seeing many of you there!

I am delighted to report that the outcomes of the IEEE Five Year Review of the Magnetics Society were really very positive overall. The reviewers commented positively on many aspects of our operations, and pointed to some of them as best practices to be shared with other Societies and Councils, among them the Graduate Summer School, the Women's Networking Events, and our electronic process for budget preparation and approval.

The recommendations arising from the Five Year Review ranged from encouragement to use social media more widely to meet the objectives of the Society, to expanded use of new technologies at conferences, to development of a formal strategic plan. You are welcome to view the Review report, and its fifteen recommendations online at [www.ieeemagnetics.org](http://www.ieeemagnetics.org), and your suggestions for ways to follow up on these recommendations are welcome.

We are now into the election cycle for the Administrative Committee (AdCom), the body of 39 people that oversees the

operations of the Magnetics Society, of which 24 are directly elected. I strongly encourage you to submit a nomination for the ballot if you are enthusiastic about strengthening the international community for magnetism and magnetic materials and advancing the interests of our members!

By serving on the AdCom you gain the opportunity to guide and to shape the direction of the Society as it grows and evolves, and it is an engaged and agreeable group of forward-looking people to work with. We particularly seek more members from the Asian-Pacific nations and Latin America (Regions 9 & 10, in IEEE-speak), to ensure that we have a committee that is broadly representative of our members, and to support our plans to grow in these regions. More details can be found elsewhere in this edition of the Newsletter.

In this milestone year, the 50th anniversary of your Magnetics Society, I encourage each of you to extend yourselves in new ways in support of the growing international magnetism and magnetics community.

*Liesl Folks can be reached via: [lfolks@buffalo.edu](mailto:lfolks@buffalo.edu)*

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## 2015-2017 AdCom: Call for Nominations

By Takao Suzuki, Nominations Committee Chair

### **Deadline for submissions: June 1, 2014.**

The Administrative Committee (AdCom) of the IEEE Magnetics Society includes 24 members who are elected directly by the Society membership. Eight of these members are elected in the fall of each year, to serve a three-year term that begins at the start of the following calendar year. Membership in the IEEE and in the Magnetics Society or in an Affiliate Society is required.

The responsibility of AdCom is to manage the operations and functions of the Society. These include the publications of the Society, the conferences sponsored by the Society, the various Society awards, and the promotion of the general interests of the Society members. More details on AdCom functions may be found in the Constitution and Bylaws of the Society posted on the Society web site: [www.ieeemagnetics.org](http://www.ieeemagnetics.org).

The IEEE Magnetics Society Nominations Committee seeks nominations of outstanding members of the Society to be considered for inclusion on the ballot for election to the AdCom. These nominees will be considered for inclusion on the August 2014 ballot for AdCom for the 2015-2017 term.

- (1) Nominations will be accepted from the general membership. Self-nominations are welcome and encouraged! The deadline for the receipt of nominations is June 1, 2014. All nominations are to be submitted online as described at the end of this document. To be guaranteed a place on the ballot, candidates may also be nominated by petition. For nominations by petition, a list of 56 (or more) petitioners' names, IEEE membership numbers, and original petition signatures must be sent separately to the Nominations Committee Chair. See further information below.

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# 2015-2017 AdCom: Call for Nominations *continued from page 2*

- (2) For nominations other than self-nominations, the nominator **MUST** verify that the prospective nominee is willing to stand for election if selected and work closely with the nominee to obtain the required information in the proper format.
- (3) The required nominee data are (a) family (last) and (b) given (first) names, (c) IEEE membership number, (d) e-mail address, (e) telephone number, (f) affiliation, (g) country, (h) Biographical Statement (written in the third person), and (i) Statement of Candidacy (written in the first person). Each statement must be in English and be 1,200 or fewer characters in length.
- (4) Required nominator data (except for self-nominations) are: (a) full name, (b) IEEE number, (c) e-mail address, (d) affiliation, and (e) an optional list of names, IEEE membership numbers and affiliations for additional endorsements of the nomination (limited to 400 characters). For self-nominations, please enter "SELF NOMINATION" in the nominator name block.
- (5) Both the nominee and the nominator **MUST** be current members of the IEEE and of the Magnetics Society or be a Society Affiliate as defined in the IEEE rules. The provided IEEE member number of the nominee will be taken as his/her agreement to stand for election if selected by the Nominations Committee and to serve if elected.
- (6) The Nominations Committee makes no guarantee that a nominated person will be included on the ballot. The Committee will select a minimum of 12 names (as required by the Bylaws) and likely no more than 16 names to assemble a ballot that reflect the global nature of the Society. Criteria will include factors such as technical accomplishment, professional honors, leadership, and past service to the Society. The eight individuals with the largest number of votes will become the elected AdCom members for the 2015-2017 term. The election will be administered by the IEEE and will be held from mid-August to mid-October 2014.
- (7) IEEE rules also allow for nomination by petition by 2% of the membership of the Society for automatic inclusion on the ballot. Based on the current membership (2,751, as of March 21, 2014), 56 valid signatures are required for a

nomination by petition. The nomination process is the same, except that the list of petitioner names, IEEE membership numbers, and original signatures must be submitted in hard copy to the Chair of the Nominations Committee on or before June 1, 2014.

## FOR NOMINATION BY PETITION SIGNATURE LISTS ONLY, SEND TO:

Takao Suzuki, Nominations Committee Chair  
Center for Materials for Information Technology  
University of Alabama  
P. O. Box 870209  
Tuscaloosa, AL 35487-0209  
USA

- (8) All nominations shall be submitted on or before June 1, 2014 via: [www.ieeemagnetics.org/nominations.php](http://www.ieeemagnetics.org/nominations.php).
- (9) Nominators are urged to collect and check the required materials **BEFORE** going to the online nomination form, and to carefully proofread the entered fields **BEFORE** final submission. Once submitted, there is no provision for edits or corrections. For those nominations selected for the ballot, the Biographical Statement and Statement of Candidacy will be included on the ballot as submitted.

Questions may be sent by e-mail to: [takaosuzuki@mint.ua.edu](mailto:takaosuzuki@mint.ua.edu).

The members of the Nominations Committee are listed below. These individuals may also be contacted for additional information:

Bernard Dieny: [bernard.dieny@cea.fr](mailto:bernard.dieny@cea.fr)  
Ron Goldfarb: [r.goldfarb@iecc.org](mailto:r.goldfarb@iecc.org)  
Laura Lewis: [lhlewis@neu.edu](mailto:lhlewis@neu.edu)  
Dmitri Litvinov: [litvinov@uh.edu](mailto:litvinov@uh.edu)  
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Jan-Ulrich Thiele: [jan-ulrich.thiele@seagate.com](mailto:jan-ulrich.thiele@seagate.com)  
Mi-Ching Tsai: [mctsai@mail.ncku.edu.tw](mailto:mctsai@mail.ncku.edu.tw)

Thank you for your support of the IEEE Magnetics Society through your membership and your participation in this process.

# 5th Non-Volatile Memories Workshop *continued from page 2*

technologies in an ever-increasing number of application scenarios, ranging from data-intensive computing systems to super high-resolution video games. As the capabilities of NVM-based storage rapidly evolve, it is more critical than ever that researchers at each level of the system “stack” be aware of the needs, challenges, and opportunities associated with the other levels. The workshop provides researchers and practitioners the opportunity to gain a broader understanding of what is needed to accelerate the development and adoption of NVM-based storage technologies, and to establish relationships that will provide the basis for further advances.

The workshop began with a tutorial titled “System-Level Reliability in Storage Stacks,” presented by Dr. Cheng Huang of Microsoft Research and Dr. Hao Zhong of Fusion-io. Approximately 175 people were in attendance. The Program Committee assembled a technical program consisting of 32 contributed papers organized into eight sessions on Devices, Coding for Enhanced Endurance, Coding for Reliability, Data Encoding and Mapping Techniques, System Architectures for Flash, System Architectures for Next-Generation Memories (I and II), and Applications. A poster session featured another 30 papers that broadened the scope and depth of the workshop’s technical content.

The keynote addresses that opened each day of technical sessions were another highlight of the meeting. John Scaramuzzo, Senior VP of Enterprise Storage Solutions at SanDisk presented his vision of the future in a talk entitled “The Flash Transformed Data Center.” Dr. Kaladhar Voruganti, Senior Technical Director of the Advanced Technology Group at NetApp spoke about “NVM and New Storage Design Centers,” exploring the dramatic effect that non-volatile memory technologies are having on storage system design. The social program included a welcome reception at the Sheraton La Jolla Hotel and a banquet at the San Diego Museum of Art.

The workshop attracted a record 235 registered participants from industry, academe, and national labs. Overall, approximately 60% of the participants came from industry, with the remaining 40% hailing from academic and government institutions. Around one-quarter of the attendees were graduate students and post-doctoral researchers, whose participation was funded in large part by a generous grant from the National Science Foundation.

The NVMW series is co-organized by Prof. Paul Siegel of the Center for Magnetic Recording Research (CMRR) and Prof. Steven Swanson of the Non-Volatile Systems Laboratory (NVSL) at UCSD. This year’s workshop was sponsored by the IEEE Magnetics Society and also enjoyed generous corporate support from HGST, Micron, and NetApp, as well as from LSI, Marvell, Microsoft Research, PMC, Rambus, SK Hynix Memory Solutions, Toshiba, and Western Digital.

An archival website at [nvmw.ucsd.edu](http://nvmw.ucsd.edu) provides a lasting record of all of the NVMW workshop proceedings and a resource for the scientific community and general public. The website includes the workshop program, as well as links to the presentation slides from the tutorial session, keynote addresses, and most of the talks in the technical sessions.



***Dinner in the Sculpture Court and Garden at the San Diego Museum of Art (picture courtesy of Alex Matthews).***



***Cocktails in the Rotunda at the San Diego Museum of Art (picture courtesy of Alex Matthews).***

# Computation in Electromagnetics (CEM 2014)

By Jan Sykulski, CEM 2014 Chair

The Ninth International Conference on Computation in Electromagnetics (CEM 2014) ([conferences.theiet.org/cem/index.cfm](http://conferences.theiet.org/cem/index.cfm)) took place during March 31 – April 1, 2014 at Imperial College, London, UK. With around 100 participants from over 20 countries, it was a lively event with fantastic discussions and interesting presentations. CEM 2014 has continued with the tradition of keynote lectures and invited scene-setting introductory talks on selected themes, particularly valuable to those less familiar with the topics of the forthcoming sessions. CEM has brought together researchers engaged in methods and techniques of computational electromagnetics, engineers facing the challenges of hazards and electromagnetic compatibility (EMC) / electromagnetic interference (EMI) and designers of low frequency as well as high frequency devices. The networking opportunities were tremendous.

One particular innovation was the one-minute, one-slide oral introductions, before each poster session, allowing authors to highlight their work and explain the main novelty; these were followed by traditional interactive (poster) sessions. The response from the participants to this experiment was extremely encouraging. The Technical and Professional Network on Electromagnetics ([mycommunity.theiet.org/communities/home/57](http://mycommunity.theiet.org/communities/home/57)) funded five book vouchers which were presented to best student presenters at CEM.

Imperial College has proven itself to be a very good venue for this type of a conference. The participants also enjoyed the opportunity to see the exhibitions of electromagnetic software vendors Infolytica, Cobham, CST and Ansys. The event was technically co-sponsored by the IEEE Magnetics Society, the UK Magnetics Society, ACES and International Compumag Society. Opening and closing ceremonies and all keynote lectures as well as the invited talks were recorded by the IET.tv and will soon be available via their web site at [tv.theiet.org/](http://tv.theiet.org/).

Selected authors have been invited by the CEM Organising Committee, following reviewers' reports and session chairs' recommendations, to prepare extended versions of their papers which – after normal reviewing – will appear in three particular journals: IET Science, Measurement & Technology ([digital-library.theiet.org/content/journals/iet-smt](http://digital-library.theiet.org/content/journals/iet-smt)), ACES Journal ([www.aces-society.org/journal.php](http://www.aces-society.org/journal.php)) and Archives of Electrical Engineering ([www.aee.put.poznan.pl/](http://www.aee.put.poznan.pl/) or [www.degruyter.com/view/j/aee](http://www.degruyter.com/view/j/aee)).

As the overall Chairman I am very grateful to the Conference Committee, IET Events staff, sponsors and supporters of the conference for making this event a success and would like to invite all interested to the next edition of the conference, likely to be organised in 2016 or 2017 – for further information please consult the TPN Electromagnetics web pages.

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## Prof. Vincent G. Harris Visits IMR

By Lee Hsun, Institute of Metal Research Award Office

The winner of the 2013 LEE HSUN Lecture Series Research Award, Prof. Vincent G. Harris, from Northeastern University was invited to visit the Institute of Metal Research (IMR) during October 13-15, 2013.

During the visit, Prof. Harris gave a lecture on “Modern Microwave Ferrites: The Quest for Microwave Circuit Integration”. Prof. ZHANG Zhefeng, the Deputy Director of IMR, presented the plaque of the LEE HSUN Research Award to him. Prof. Harris shared his opinions on research fields such non-rare-earth permanent materials and high frequency electromagnetic material, and discussed the cooperation plan with the Magnetism and Magnetic Materials Division of IMR.



*Prof. ZHANG Zhefeng, the Deputy Director of IMR presents the LEE HSUN Research Award to Prof. Vincent G. Harris.*

# Magnetics Society New IEEE Fellows 2014

By Hiroaki Muraoka, Fellows Technical Evaluation Subcommittee Chair

## **Peter Fischer**

**Lawrence Berkeley National Laboratory, USA**

*“For contributions to the development and application of high resolution X-ray magnetic imaging”.*

Peter Fischer received his PhD in Physics (Dr.rer.nat.) from the Technical University in Munich, Germany in 1993, on groundbreaking work with X-ray magnetic circular dichroism in rare earth systems and his habilitation thesis from the University in Wuerzburg in 2000 based on his pioneering work on Magnetic Soft X-ray microscopy.

Since 2004 Dr. Fischer is a staff scientist and principal investigator at the Center for X-ray Optics within the Materials Science Division at Lawrence Berkeley National Laboratory in Berkeley CA and beamline scientist in charge of the full-field

soft x-ray microscope at the Advanced Light Source. His research program is focused on the use of polarized synchrotron radiation for the study of fundamental problems in magnetism.



Dr. Fischer has published more than 160 peer reviewed papers and has given over 240 invited presentations at national and international conferences. He was nominated as Distinguished Lecturer of the IEEE Magnetics Society in 2011 and as Zhongshan Distinguished Lecturer in 2013. For his achievements of “hitting the 10nm resolution milestone with soft X-ray microscopy” Dr. Fischer was co-recipient of the Klaus Halbach Award at the Advanced Light Source in 2010.

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## **Bruce A. Gurney**

**HGST, USA**

*“For contributions to spin valve Giant Magnetoresistance sensors for magnetic recording systems”.*

Dr. Bruce Gurney is manager of the Nanostructured Media Group at the San Jose Research Center of HGST, a subsidiary of Western Digital. He has been investigating the fundamental underpinnings of present and future magnetic recording technologies since 1987. For much of that time Dr. Gurney has investigated the mechanisms of magnetotransport and the application of giant magnetoresistance, spin valve, magnetic tunnel junction layered materials and spintronic devices. He is a co-inventor of the spin valve giant magnetoresistive sensor structure and many of its variants used in the magnetic recording industry since 1997. For this work Dr. Gurney received the 2004 Reynold B. Johnson IEEE Field Award for

Information Storage, and IBM Outstanding Achievement and Corporate Awards. He has authored more than eighty publications, and holds more than seventy patents.



Dr. Gurney received a BS (1979) in physics from CalTech, followed by MS (1982) and PhD (1987) degrees in physics from Cornell University where he developed novel instrumentation for the investigation of physical and chemical processes at surfaces. He is a Fellow of the American Physical Society and Fellow of the IEEE, where he has served on the Magnetics Society Administrative Committee as Honors and Awards Chair and Standards Chair, and has participated as program chair and publications chair for various international conferences.

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## **Axel Hoffmann**

**Argonne National Laboratory, USA**

*“For contributions to nanomagnetism and manipulation of spin current”.*

Dr. Axel Hoffmann received his PhD in Physics from the University of California – San Diego in 1999. Afterwards he was a postdoctoral fellow at the Los Alamos National

Laboratory and in 2001 he joined the Materials Science Division of the Argonne National Laboratory as a staff member. Since 2014 he is the leader of the Magnetic Films group at Argonne and his research interests encompass a variety of magnetism related subjects, including basic properties of magnetic heterostructures, spin-transport in novel



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# Magnetics Society New Fellows 2014 *continued from page 6*

geometries, and biomedical applications of magnetism. He has more than 100 publications, four book chapters, and three magnetism related U.S. patents. Furthermore, he has presented more than 200 invited talks at conferences and research institutions. Currently he is an associate editor for the Journal of Applied Physics and he has been the general chair of the

2013 Magnetism and Magnetic Materials conference. He is a fellow of the American Physical Society and for 2011 the IEEE Magnetics Society selected him as a Distinguished Lecturer. In 2014 he was awarded as an Outstanding Referee by the American Physical Society.

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## **Magdalena Salazar-Palma**

**Charles the Third University of Madrid, Spain**

*“For contributions to the application of numerical techniques to electromagnetic modeling”.*

Dr. Magdalena Salazar-Palma received the MS and PhD degrees in Electrical and Electronic Engineering from Polytechnic University of Madrid, Spain. She is with the Department of Signal Theory and Communications, Charles the Third University of Madrid, Spain, where she is Full Professor, co-director of the Radiofrequency, Electromagnetics, Microwaves and Antennas Research Group (GREMA) and has served for three years as Department head.

Dr. Salazar-Palma's research interests cover several areas of applied electromagnetics from computational techniques to advanced filter design for communication systems. Author of over 620 scientific publications, she is the co-inventor of two

European / US patents and several software packages used by multinational companies. Dr. Salazar-Palma has participated in 89 research projects and contracts, financed by USA, European, and Spanish institutions and companies.



Since 1989 Dr. Salazar-Palma has served in the IEEE in different volunteer positions at all levels: Chapter, Section, Region, Society, Major Boards and Standing Committees, among them, Spain Section Chair, Women in Engineering Committee Chair, Antennas and Propagation Society President. She serves now in several committees of the Technical Activities Board, Awards Board and as Chair of Sections Congress 2014 Committee of Member and Geographic Activities Board

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## **Kiruba Sivasubramaniam**

**General Electric Company, USA**

*“for contributions to high power density electric machines for renewable energy and aerospace applications”.*

Dr. Kiruba Sivasubramaniam Haran graduated from the Obafemi Awolowo University, Nigeria, in 1994 with a BS in Electronic and Electrical Engineering. He obtained his PhD in Electric Power Engineering from the Rensselaer Polytechnic Institute in 2000, and joined the General Electric Global Research Center shortly thereafter. He is currently manager of the Electric Machines Laboratory there, and leads the technology development on generators and motors for all of GE's industrial businesses.

Dr. Haran's work has targeted a variety of applications, including high power density machines for aviation, light weight, multi-megawatt generators for wind and harsh environment motors for oil & gas. From 2007 to 2011, he led wind generator R&D at GE, and helped develop a range of drive-train technologies including geared PM generators and superconducting direct-drives.



Prior to joining GE, Dr. Haran was a support and consulting engineer with Magsoft Corporation providing consulting services on the design and analysis of a broad range of electromagnetic devices.

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# Magnetics Society New Fellows 2014 *continued from page 7*

## **Jiming Song**

**Iowa State University, USA**

*“For contributions to algorithms in computational electromagnetics”.*

Dr. Jiming Song received BS and MS degrees from Nanjing University, China, in 1983 and 1988, respectively, and the PhD degree from Michigan State University in 1993.

From 1993 to 2000, he worked as a Postdoctoral Research Associate and Research Scientist at the University of Illinois at Urbana-Champaign. From 1996 to 2000, Dr. Song worked as a Research Scientist at SAIC-DEMACO. From 2000 to 2002, he was a Principal Staff Engineer/Scientist at Semiconductor Products Sector of Motorola, Tempe, Arizona. In 2002, he joined Department of Electrical and Computer Engineering,

Iowa State University, and is currently an Associate Professor.



Dr. Song’s research has dealt with modeling and simulations of interconnects on lossy silicon and RF components, wave scattering using fast algorithms, wave propagation in metamaterials, and transient electromagnetic field. He has co-edited one book and published seven book chapters, 51 journal papers and 137 conference papers.

Dr. Song received the NSF Career Award in 2006 and the Excellent Academic Award from Michigan State University in 1992. He was selected as a National Research Council/Air Force Summer Faculty Fellow in 2004 and 2005.

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## **Charles Sullivan**

**Thayer School of Engineering at Dartmouth, USA**

*“for contributions to the design of power electronic circuits and magnetics”.*

Dr. Charles Sullivan is a Professor of Engineering at the Thayer School of Engineering at Dartmouth. He received a BS degree from Princeton University in 1987. From 1987 to 1990, he worked at Lutron Electronics designing electronic ballasts and high-frequency magnetic components. He received a PhD from the University of California at Berkeley in 1996, where he developed the first high-power-density high-frequency microfabricated thin-film transformers on a silicon substrate.

He has published over 145 technical papers in topics including design optimization of magnetic components for high-frequency power conversion; thin-film magnetic materials and devices for power applications; energy efficiency and renewable energy; electric machines; and electromagnetic modeling of capacitors.



Dr. Sullivan holds 31 patents, and has received awards including the National Science Foundation CAREER award, two Power Electronics Society Prize Paper Awards, and the Thayer School of Engineering Excellence in Teaching Award.

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## **Migaku Takahashi**

**Tohoku University, Japan**

*“for contributions to thin film technology for high-density recording media and heads”.*

Dr. Takahashi received his PhD in Engineering from Tohoku University in Sendai, Japan in 1976. He then began research into magnetic materials on the basis of a fundamental understanding of magnetization, anisotropy and magnetostriction and explored his knowledge to the application of actual devices.

also a visiting researcher and professor at several universities in Germany and Korea. He has published over 440 papers. In addition, he holds 33 international patents and 42 domestic patents.



Dr. Takahashi has received awards such as the Philip Franz Von Siebold Prize in 1996 and also R&D Achievements Award for the development of media with high recording density, from the Ministry of Education, Culture, Sports, Science and Technology of Japan in 2007. He was the President of the Magnetics Society of Japan and the Asian Union of Magnetics Society (2009 – 2011).

Dr. Takahashi had been the professor at Department of Electronic Engineering, Tohoku University from 1995. He was



## Conference Calendar

- May 4-8, 2014 2014 Intermag Conference  
Dresden, Germany  
[www.intermagconference.com](http://www.intermagconference.com)
- May 25-28, 2014 16th Biennial Conference on Electromagnetic Field Computation (CEFC 2014)  
Annecy, France  
[www.cefc2014.org](http://www.cefc2014.org)
- June 29 - July 2 ,2014 2014 IEEE International Conference on Microwave Magnetics  
Sendai, Japan  
[www.ecei.tohoku.ac.jp/icmm2014/](http://www.ecei.tohoku.ac.jp/icmm2014/)
- July 2-4, 2014 Introductory Course on Magnetic Random Access Memory (InMRAM)  
Grenoble, France  
[www.inmram.com](http://www.inmram.com)
- July 6-9, 2014 10th European Conference on Magnetic Sensors and Actuators (EMSA)  
Vienna, Austria  
[emsa2014.conf.tuwien.ac.at](http://emsa2014.conf.tuwien.ac.at)
- August 17-21, 2014 23rd Int. Workshop on Rare Earth & Future Permanent Magnets (REPM2014)  
Annapolis, Maryland, USA  
[www.repm2014.com](http://www.repm2014.com)
- September 2-4, 2014 8th International Conference on Sensing Technology (ICST 2014)  
Liverpool, UK  
[www.ljmu.ac.uk/BLT/BEST/ICST2014/](http://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](http://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](http://www.intermagconference.com)
- June 1-5, 2015 9th International Conference on Power Electronics ECCE Asia (ICPE 2015)  
Seoul, Korea  
[www.icpe2015.org](http://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

# IEEE Magnetism Letters Open Access

By Ron Goldfarb, Publications Chair

*IEEE Magnetism Letters* ([ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=5165412](http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=5165412)) is one of IEEE's hybrid open-access journals. For a fee, authors have the option of making their articles freely available under open access. Beginning this year, as a courtesy to IML authors, all newly published articles will be

free to download for about 10 days, even if they are traditional, non-open-access articles. Members of the Magnetism Society already have free access to IML; this new feature will benefit readers who are not members and whose institutions do not subscribe to IEEE journals.

## New Senior Members

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

Feb 2014: Richard Bravo, Mario Carpentieri, Baoxing Chen, John Crouse, Heidi Hardner, Qingyuan Jin, Mathias Klaui, Ping Liu, Yaowen Liu, Jian-Ping Wang and Weisheng Zhao.

Mar 2014: Maria Gomez, Delvis Gonzalez, Henryk Piekarczyk, Manoj Pradhan and Marcin Szewczyk.

For further information, visit the IEEE Web site at:

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

# 8th International Conference on Sensing Technology

By Kevin Kuo, Publicity Chair, ICST 2014

The website of the 8th International Conference on Sensing Technology has been updated. Please visit [www.ljmu.ac.uk/BLT/BEST/ICST2014/](http://www.ljmu.ac.uk/BLT/BEST/ICST2014/)

Please note that the conference will be held at Liverpool, UK during September 2 to 4, 2014.

Important dates to remember:

- April 30, 2014: Manuscript (4-6 pages) submission
- June 23, 2014: Notification of acceptance
- July 11, 2014: Final manuscript submission and registration opens

## About the Newsletter

The purpose of the IEEE Magnetism 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 magnetism. Manuscripts are solicited from Magnetism 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 Magnetism Society webpage at [www.ieeemagnetism.org](http://www.ieeemagnetism.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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