



From The President

By Randall Victora, Society President

The IEEE has about 340,000 members. It claims to be the largest technical professional association in the world. Key to understanding this claim, is realizing what is meant by professional versus technical societies. In this parlance, associations that are devoted to advancing technical knowledge are technical associations. Examples are the American Physical Society (about 40,000 members) and the Materials Research Society (about 14,000 members). In contrast, professionals are individuals trained in a discipline to provide a particular service. An example is the National Society of Accountants. The IEEE is unusual in combining both aspects.



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2014 INTERMAG in Europe

By Doug Lavers, Conference Executive Committee Chair

It has been a longstanding policy of the Magnetics Society, dating back to at least the mid-1970s, that the International Magnetics Conference, or INTERMAG, be held outside of continental North America every three years, alternating between a location in Europe and one in the Asia Pacific region. Decisions on where to hold a given INTERMAG are made by the Conference Executive Committee (CEC) of the Society. Since the late 1990s, CEC has been assisted in the selection of sites for the off-shore INTERMAGs by two Advisory Committees, one for Europe and a second for the Asia Pacific region.

An Advisory Committee for a given region becomes active when a decision on an off-shore INTERMAG site for that region must be made. The CEC Chair appoints each Advisory

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Committee Chair and that Chair sits as a member of CEC. The Advisory Committee Chair, in turn, appoints members to his/her committee. The Chair and the Advisory Committee members are all active members of the magnetics community within their particular region (Europe and Asia Pacific).

The mandate of an active Advisory Committee is to develop a list of potential INTERMAG sites for consideration, to identify a suitable champion (and potential Chair) for each site, to ensure that those interested in hosting an INTERMAG have a common set of parameters on which to develop an expression of interest, to evaluate submitted expressions of interest, and most importantly, to present CEC with a short list of potential sites based on that evaluation. Whereas CEC has responsibility for the final decision on any site selection, CEC pays very

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Call For Nominations for AdCom Ballot Consideration

By Carl E. Patton, Nominations Committee Chair

Nominations are now being considered, for the ballot for the 15 Aug - 15 Oct 2009 election to the IEEE Magnetics Society Administrative Committee (AdCom) for a 2010-2012 term. The deadline for submissions is 1 June 2009.

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

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 2009 ballot for AdCom for the 2010-2012 term.

(1) Nominations will be accepted from the general membership. Self nominations are welcome and encouraged! The deadline for the receipt of nominations is 1 June 2009.

(2) For nominations other than self-nominations, the nominator is required (a) to verify that the prospective nominee is willing to stand for election is selected and (b) to work closely with the nominee to obtain the required information in the proper format.

(3) The required data are: (a) complete and accurate names, contact information, and IEEE membership numbers for the nominee and the nominator (if not a self-nomination), (b) the nominee's 300 word (or less) Biographical Statement, and (c) the nominee's 300 word (or less) Statement of Candidacy. Note: (b) and (c) MUST BE WRITTEN IN THIRD PERSON.

(4) Both the nominee and the nominator MUST be a current member of the IEEE and the Magnetics Society or be a Society Affiliate as defined in the IEEE rules. IEEE membership numbers for the nominee and the nominator MUST be included with the submission. The 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.

(5) The Nominations Committee (pending AdCom approval) consists of John Chapman (UK), Olle Heinonen (USA), Burkard Hillebrands (Germany), Hiroaki Muraoka (Japan), Sung-Chul Shin (Korea), Usha Varshney (USA) and Roger Wood (USA). We anticipate a large number of nominations. The Committee makes no guarantee that a nominated person will be included on the ballot. This is why the Call is for "nominations for consideration for the ballot." The Committee will endeavor to select a slate for the ballot that reflects the global nature of membership and is reflective of the society makeup. Criteria will include factors such professional honors and accomplishments, evidence for leadership, and past involvement in service to the Society. The number of names that will be selected for the ballot will be at least 12, as required by Society Constitution and Bylaws, and usually no more than 18 - 20. The 8 individuals with the largest number of votes will become the elected AdCom members for the 2010-2012 term. The election will be administered by hard copy mail ballot by the IEEE and will be held from mid-August to mid-October.

(6) 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, the number of valid signatures required for a nomination by petition is 60. The submitted nomination materials shall be the same as listed above, but must be submitted in hard copy along with (a) the paper petition with original signatures, the printed name, and the IEEE membership number for all individuals signing the position, and (b) written evidence that the individual will be willing to stand for the ballot if the petition is successful and serve if elected. Only paper petitions with original signatures can be accepted. Facsimiles or other copies of the original signature will not be accepted. The initiator of the petition may be the prospective nominee for consideration for the ballot or some other Society member. As above, the prospective nominee shall (a) have agreed to stand for the ballot if the

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petition is approved and (b) be involved in the preparation of the required materials as listed above. Said petition in hard copy and with original signatures must be received by the Chair of the Nominations Committee on or before 1 June 2009.

(7) Procedures for the submission of Nominations for Consideration for the Ballot are under development. It is anticipated that submission options will be in one of three ways, (a) by a downloaded spreadsheet form and submission as an e-mail attachment to Nominations Committee Chair (first preference), (b) web submission (second preference), and (c) hard copy submission by mail to Nominations Chair (discouraged - except for nominations by petition). Further details on submission procedures will be sent out to all Society members shortly. For ease of submission, it is recommended that all materials be prepared beforehand for cut and paste insertion in the appropriate spreadsheet or web blocks.

The required information is as follows:

Nominee:

(1) Name of nominee (make sure to make it clear which name is the family name and which name(s) is (are) surnames. (2) IEEE membership number of nominee. (3) E-Mail address of nominee. (4) Telephone number of nominee. (5) Affiliation and address of nominee. (6) Biographical Statement (the web block will be limited to 300 words or less). (7) Statement of

Candidacy (the web block statement will be limited to 300 words or less).

Nominator (if the nomination is NOT a self-nomination):

(8) Name of nominator. (9) IEEE membership number of nominator. (10) E-Mail address of nominator. (10) Telephone number of nominator. (11) Affiliation and address of nominator. (12) Any additional endorsements (optional) - include full names, affiliations, E-Mail addresses, and IEEE numbers.)

The deadline for submissions is 1 June 2009.

Address for submission of hard copy nominations (discouraged) and nominations by petition (required, with original signatures and member identification, including IEEE number):

Carl E. Patton, Nominations Committee Chair
Department of Physics
Colorado State University
Fort Collins, CO 80525
USA

Any and all questions on the above may be directed to Carl E. Patton via email at patton@lamar.colostate.edu

2009 Summer School

The IEEE Magnetics Society sponsors an annual Summer School for graduate students in Magnetics. The 2009 Summer School will be held Sep 20-25, 2009 at Nanjing University in Nanjing, China.

The school is designed for graduate students studying magnetism and related areas. It will consist of a series of lectures by international experts and will include poster presentations by participating graduate students.

Support will be provided for approximately 50 students. Awardees will be provided with free room and board and will be reimbursed for most of the cost of economy round trip airfare (or equivalent ground transportation). A limited number of additional students may be accepted with reduced or no financial support.

Applications will be considered from any geographical area. Participants must currently be MS or PhD students studying basic or applied magnetics.

Key Dates:

May 12, 2009
Jun 1, 2009
Jun 15, 2009
Sept 20, 2009

Application deadline
Notification of acceptances
Deadline for students to confirm
Summer School starts

Visit the Summer School Web site for application forms and further detail, at:

sites.google.com/site/magneticsummerschool/

From The President *continued from page 1*

We, in the Magnetics Society, are typically more concerned with the technical activities of the IEEE. The IEEE Technical Activities Board (TAB) consists of 38 different societies and 7 councils. (Councils cover interdisciplinary areas such as nanotechnology. They are formed by groups of societies.) We are a mid-size society with about 3000 members. The largest IEEE technical society is the Computer Society with almost 100,000 members. There are also a number of societies with less than a 1000 members. Typically, the largest societies contain many practicing engineers, for example, computer programmers. The smaller societies tend to be much more oriented towards research and development, with a disproportionate number of Ph.D.'s and academics. There are, of course, exceptions to both of these statements.

The IEEE divides its technical activities into divisions. We are part of division IV, which also comprises related societies such as Microwave Theory and Techniques, Antennas and Propagation, Nuclear and Plasma Sciences, Electromagnetic Compatibility, and the Council on Superconductivity. Surprisingly, it also contains the Broadcast Technology and Consumer Electronics Societies, which were presumably included to make sure that Division IV had the proper total membership. Each division is represented by a director that is

elected on the general IEEE ballot that members receive in the fall. This year, a past president (2001-2002) of the Magnetics Society, Robert Fontana of Hitachi Global Storage Technologies, will appear on that ballot. I urge you to vote in this election.

I will close this discussion by noting that the counterpart to IEEE's division by technical activities is its simultaneous division into ten geographic regions. These regions are then broken more finely into more than 300 sections, e.g., the Twin Cities Section. The local chapters of the Magnetics Society are a manifestation of this regional division. These local chapters make a connection between the technical and regional aspects of IEEE. With the recent addition of chapters in Germany and Hong Kong, our chapter count has increased to 29. To my knowledge, this is the highest number of Magnetics Society chapters in our history. In recent years, the Magnetics Society has increased the funding of these chapters in an effort to extend member benefits to those individuals less able to profit from other features such as sponsored conferences. We hope that our membership has found this to be beneficial.

Randall Victora can be reached via email at victora@umn.edu

2014 INTERMAG in Europe *continued from page 1*

careful attention to opinions and preferences expressed by the Advisory Committee.

This system has worked wonderfully well since it was first implemented, resulting in three highly successful conferences (Amsterdam in 2002, Nagoya in 2005 and Madrid in 2008), with similarly high expectations for Taipei in 2011. In the case of the Amsterdam and Madrid INTERMAGs, the European Advisory Committee was superbly chaired by Kevin O'Grady, who also made major contributions on the Management Committee of both conferences.

Following on from the two most recent INTERMAGs in Europe, there is a solid pool of expertise upon which to draw as new conferences are planned. However, keeping in mind that consecutive INTERMAGs in Europe are currently separated by a six year span, it is imperative that the experience base developed at the most recent INTERMAG not be lost when planning the next such conference, scheduled for 2014. In this

regard, the policy used by MMM, the other major conference sponsored by the Society, provides useful guidance. In particular, the immediate past Chair of a MMM Conference plays a crucial role in selecting the site of a future conference, thus ensuring that the experience gain can be passed along while it is freshest in memory.

The approach used by MMM provides a useful model when applied to an present task before CEC, namely moving toward the selection of a site for the 2014 Conference. With this in mind, I am very pleased to announce that Manuel Vazquez, immediate past Chair of the 2008 Madrid INTERMAG, has agreed to Chair the Advisory Committee charged with developing a recommended short list of sites for the 2014. During the next short period, Manuel will be developing his Advisory Committee team. Several expressions of interest have been received, and others who may be interested in potentially hosting the 2014 INTERMAG are invited to contact Manuel Vazquez at mvazquez@icmm.csic.es

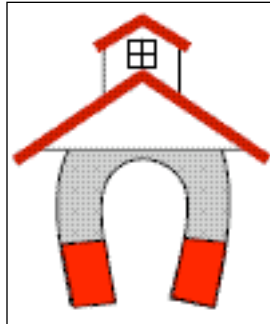
Call for Proposals for Hosting 2010 Summer School

By Albrecht Jander, Education Committee Chair

The IEEE Magnetics Society has recently begun to sponsor a 1-week summer school on magnetics. The first summer school was held in August, 2008 in Colorado Springs, CO, and the second summer school will be held in Nanjing, China, Sep 21-25, 2009. We are soliciting proposals to host the 2010 summer school to be held either in Europe or the US.

The expected format of the summer school will be similar to the one held in Colorado Springs. It will have 10 or so internationally known experts who will each lecture for ½ day on a variety of topics, including fundamentals of magnetism as well as special topics. Approximately 75 students from throughout the world will be accepted and given support to attend. Financial support will be provided by the IEEE Magnetics Society, which will include all local and travel expenses for the lecturers, all

local expenses for students, and most of the student travel expenses. Local financial support is not a requirement, although in-kind support in the form of personnel and facilities are encouraged. Information on the 2008 summer school can be found at:



www.ieeemagnetics.org/newpages/toplevelpages/summer_school_flyer.htm

If you are interested in hosting the 2010 IEEE Magnetics Society Summer School, either in Europe or the US, please send a preliminary proposal to Albrecht Jander (jander@eecs.orst.edu), Chairman of the 2010 Summer School Program Committee. Include the location, possible times for the summer school, and a rough estimation of local expenses, including lecture facilities, housing and food.

INTERMAG 2009 Reminder

The International Magnetism Conference, INTERMAG 2009, will be held at the Convention Center in Sacramento, California, USA, May 4-8, 2009. For more information, please visit the INTERMAG 2009 web site at

www.intermagconference.com/intermag2009/



Thanks for the Feedback!

Thank you for the comments and suggestions for the Newsletter that we received since the last issues. Keep an eye out for some new features in forthcoming issues, as well as the return of some old friends, too.

In the mean time, please feel free to drop the Editor a line at g.p.hatch@ieee.org to let us know that you are actually reading this Newsletter, what you like about it and what we can do to improve it? Thanks!

Call for Nominations for Speakers at TMRC 2009

By Feng Liu, TMRC 2009 Publicity Chair

This is a call for nominations for speakers at the 20th Magnetic Recording Conference (TMRC 2009) that will be held Oct 5-7, 2009 at the University of Alabama, Tuscaloosa, Alabama, USA.

TMRC 2009 focuses on magnetic recording heads & recording systems. Approximately 30 invited papers of the highest quality

will be presented orally at the conference and will later be published in the IEEE Transactions on Magnetism. Nominations should be made to the Program Chairs: Dr. Paul Van Der Heijden (paul.vanderheijden@hitachigst.com) and Dr. Joe Smyth (joe.smyth@headway.com) via e-mail by Apr 17, 2009. Please include a brief abstract to support your nomination.

Activities Update from the Chapters

By Kaizhong Gao, Chapters Chair

It is spring, the snow is melting and a variety of activities are being reported from our Society local chapters. Several chapters have already announced their Distinguished Lecturers visit schedule. If you are interested in the activities from your own chapter, please refer to the Society website and find your local contact person for updated information:

www.ieemagnetics.org/newpages/toplevelpages/chapters.htm

This time we would like to highlight the involvement of a number of chapters in IEEE Magnetics Society-sponsored conferences.

The Magnetic Recording Conference (2009)

The Magnetic Recording Conference (TMRC) 2009 will be host on Oct 5-7, 2009 at the University of Alabama, Tuscaloosa, Alabama, USA. More details can be found on page 5.

Advances in Magnetic Nanostructures

The Advances in Magnetic Nanostructures conference will be held in Vail, Colorado, Oct 4-9, 2009. The scope of this conference is to highlight new developments in basic science as well as applications, and will provide a forum for researchers from academia, national laboratories, and industry. The meeting is being supported by Engineering Conferences International and the website for the meeting can be found at:

www.engconfintl.org/9bd.html

The meeting will consist of invited talks together with contributed posters. The intent is to provide a stimulating informal atmosphere similar to that of a Gordon Conference, with invited talks in mornings and evenings, and free time each afternoon for discussions and networking.

SMM 19

The 19th Soft Magnetic Materials Conference, (SMM 19), will be held in Torino, Italy, Sep 6-9, 2009. The conference is organized by INRIM, the Italian Institute for Research in Metrology, in collaboration with Politecnico di Torino and the Università degli Studi di Torino. The conference will be

chaired by Fausto Fiorillo and Giorgio Bertotti. The IEEE Magnetics Society is sponsoring this conference. For more information, please visit the website at:

www.smm19.eu

IEEE ROMSC 2009

The IEEE Magnetics Society Chapter of the Romania Section, is organizing the sixth IEEE ROMSC in Iasi, Jun 6-9, 2009. IEEE ROMSC 2009 will cover the main aspects of research in magnetism and magnetic materials, including magnetic materials and advanced characterization, micromagnetism and magnetization processes, hysteretic phenomena, molecular magnetism, spintronics, computational magnetics, bioelectromagnetic phenomena and applications, multiferroics and other hysteretic systems.

For more information, please visit the website at:

stoner.phys.uaic.ro/IEEE/ieee_romsc/ieee_romsc_2009.html

Compumag 2009

Compumag 2009 will be held in Florianopolis, Brazil, Nov 22-26, 2009. Keeping with the well established traditions of Compumag, we intend to adhere to the highest standards of scientific excellence and organization. Florianópolis is one of the most attractive cities in Brazil, located on a beautiful island in the state of Santa Catarina. The conference will take place at the Costao do Santinho Resort and Spa, one of the best resort/spas in the country. Late November is springtime here and we expect good weather.

The Brazil Chapter of the IEEE Magnetic Society is sponsoring the event and serves as the local committee contact. For more information, please visit the website at:

www.compumag2009.com

Call for feedback on chapters & membership matters

If you have any suggestions or comments for the chapters, or membership matters for the Magnetics Society, please do not hesitate to contact us via email.

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Activities Update from the Chapters *continued from page 6*

Outstanding Dissertation Award

IEEE Magnetic Society Student Member Li Gao (pictured) received the Outstanding Dissertation Award from the Topical Group on Magnetism and its Applications (GMAG). The award was given at the March Meeting of the American Physical Society (APS 2009).



1. A petition with 12 signatures of current, regular Magnetics Society members in your section,
2. Approval of the section executive board, and
3. Approval of the society president.

The Magnetics Society is ready to support the activities of its chapters around the globe. Please reference:

www.ieeemagnetics.org/newpages/toplevelpages/chapters.htm

regarding chapter formation and obtain contact information for your own region.

Setting up new chapters

If no chapter has been formed yet in your Section, consider forming a new chapter to get the most out of your membership. There are three simple requirements to form a new chapter:

A Request from the Hong Kong Chapter

By Philip Pong, Hong Kong Chapter Chair

The Hong Kong Chapter was recently established to serve the magnetism communities in the South China region and Hong Kong. One of the missions of the Chapter is to strengthen the bond between the Magnetics Society and the magnetism communities in mainland China. We are now establishing

contact points in the mainland China. If you know of any magnetism research groups or companies there, please send the contact information (name, email, and possibly website) to Philip Pong (ppong@eee.hku.hk) so that the Chapter can make contact. We thank you in advance for your help!

Rejuvenation of the Chicago Chapter

By Jack Sherman, Chicago Chapter Treasurer & Secretary Pro Tem & Past Chair

The Chicago Chapter has recently been reactivated. We have taken steps to separate from the Chicago Section's joint chapters and to return to the activity levels of recent years. Gareth Hatch is the incoming Chair and is in the process of getting things up and running again.

In addition, we have joined with Region 4's Milwaukee and Twin Cities Chapters, as centers of activity, to plan for activities in the June-July and September-October time frames, to provide for local meetings using Magnetics Society Distinguished Lecturers and for local lecturers under



the Region 4 plan for Regional Technical Activities using webinars and Virtual Chapters.

We were fortunate to have Amanda Petford-Long and Mihaela Tanase (pictured) of our local Argonne Lab, demonstrate magnetism to literally hundreds of school children as part of the IEEE Women in Engineering part of the DuPage area E-week Expo.

We have been allocated table space at the April Magnetics Conference in Chicago and will have IEEE and Magnetics Society materials available.

Conference Calendar

- Apr 15 - 16, 2009 **Magnetics Conference 2009**
Chicago, IL, USA
Web site: www.magneticmagazine.com
- May 4 - 8, 2009 **INTERMAG 2009**
Sacramento, CA, USA
Web site: www.intermagconference.com
- May 11 - 14, 2009 **7th International Symposium on Hysteresis Modeling and Micromagnetics**
Gaithersburg, MD, USA
Web site: www.metallurgy.nist.gov/magnet/hmm2009
- Jun 6 - 9, 2009 **6th IEEE ROMSC 2009**
Iasi, ROMANIA
Web site: stoner.phys.uaic.ro/IEEE/ieee_romsc/ieee_romsc_2009.html
- Jul 20 - 24, 2009 **20th International Colloquium on Magnetic Films and Surfaces**
Berlin, GERMANY
Web site: www1.mpi-halle.mpg.de/~theory/dates.html
- Jul 26 - 31, 2009 **International Conference on Magnetism**
Karlsruhe, GERMANY
Web site: www.icm2009.de
- Sep 7 - 9, 2009 **19th Soft Magnetic Materials Conference**
Torino, ITALY
Web site: www.smm19.eu
- Sep 7 - 10, 2009 **EUROMAT 2009**
Symposia on Magnetic Materials
Glasgow, UK
Web site: www.euromat2009.fems.eu
- Sep 20 - 25, 2009 **11th International Conference on Advanced Materials**
Symposium on "Magnetic Materials at the Nanoscale"
Rio de Janeiro, BRAZIL
Web site: www.icam2009.com
- Oct 4 - 9, 2009 **Advances in Magnetic Nanostructures**
Vail, CO, USA
Web site: www.engconfintl.org/9bdabout.html
- Oct 5 - 7, 2009 **20th Magnetic Recording Conference (TMRC 2009)**
Tuscaloosa, AL, USA
Web site: www.mint.ua.edu/tmrc2009/
- Nov 22 - 26, 2009 **Compumag 2009**
Florianópolis, BRAZIL
Web site: www.compumag2009.com

New Senior Members

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

JAN 2009

Maeve Duffy, Angelo Gattozzi, Burkhard Hillebrands, Guy Lemarquand & Bethanie Stadler

FEB 2009

Robert Harrison, Gareth Hatch & Amanda Petford-Long

MAR 2009

Christina Chen, Peter Fischer & Axel Hoffmann

Minnesota Young Engineer of the Year

On Feb 21, 2009, Kaizhong Gao, Chapters Chair, became the Minnesota Young Engineer of the Year.



This annual award was given by the Minnesota Federation of Engineering, Science and Technology Societies and Minnesota Society of Professional Engineers.

This is the first time that the winner is from the IEEE since the award was established in 1973.

News from the Technical Committee

By Jordan Katine, Technical Committee Chair

Since the beginning of 2009, 8 new members have been added to the IEEE Magnetics Society Technical Committee. They are:

- ▶ Paolo Vavassori (CIC nanoGUNE, Spain)
- ▶ John Xiao (University of Delaware)
- ▶ Markus Muenzenberg (GWDG, Germany)
- ▶ Toshiyuki Ueno (University of Tokyo, Japan)
- ▶ Philip Pong (University of Hong Kong, China)
- ▶ Paulo de Morais (University of Brasilia, Brazil)

- ▶ Elena Lomonova (Technical University of Eindhoven, Netherlands)
- ▶ Toshiyuki Shima (Tohoku Gakuin University, Japan)

An updated list of all Technical Committee members along with their fields of expertise, will be published shortly on the Society Web site. For those who wish to make use of this resource, it could be especially valuable to those looking for program committee members, conference proceedings editors, and the like.

About the Newsletter

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

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

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

Gareth Hatch
Dexter Magnetic Technologies, Inc.
1050 Morse Avenue
Elk Grove Village, IL 60007, USA

Email: g.p.hatch@ieee.org

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