



# IEEE MAGNETICS SOCIETY

## NEWSLETTER

VOLUME 35, NO. 2

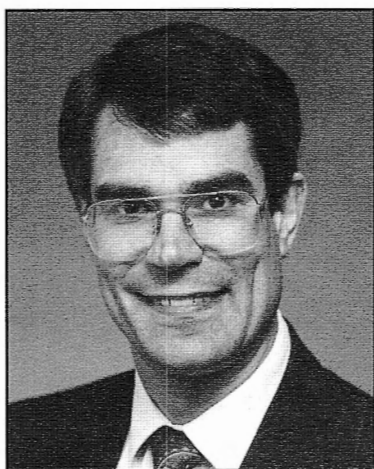
ISSN 1059-8340

June 1998

RICHARD DEE and JOHN NYENHUIS, EDITORS

### Message from the President of the IEEE Magnetics Society

Dan Stancil • Data Storage Systems Center • Carnegie Mellon University • [stancil@cmu.edu](mailto:stancil@cmu.edu)



and gained a new appreciation for many of our activities. In this column, I would like to tell you about two aspects of the Society that I think are particularly noteworthy: financial health, and publications.

Some of you may recall that the Society experienced a significant drop in net worth during 1993 and 1994. This was caused by unexpectedly low revenues from conferences and the Transactions, coupled with significant losses from the Translation Journal on Magnetism in Japan (TJMJ) before its discontinuation. To be able to provide the necessary financial backing to our conferences and Transactions, we need to maintain a net worth comparable to our annual budget expenses. This provides enough flexibility to accommodate the fluctuations in cash flow that result from unexpected delays in closing conference books and variations in conference and publication costs. In 1994, our net worth dropped to about one fifth of our expenses. To correct this situation, the Society responded by reducing expenditures and increasing revenues where practical. Among the more significant actions taken by the Society was moving the 96 INTERMAG conference from its scheduled location in Budapest to Seattle to minimize the financial risk. Although unpleasant at the time, I am pleased to report that these actions along with a bull stock market have enabled the Society to return to financial health. At the close of 1997 the net worth of the Society was once again approaching the

Every Society is reviewed once every five years by the Technical Activities Board (TAB) of the IEEE. The Magnetics Society had its latest review last February. This is a very valuable exercise, and provides a good opportunity for the Society to thoughtfully review its own activities and directions. I learned a lot about the Magnetics Society in the process,

level of our annual budget. As a result, we now have the financial strength to take reasonable risks associated with new initiatives such as electronic publishing. I would like to express my appreciation to the Finance Committee Chairman, Gordon Fish, and the leadership of the Administrative Committee for helping us recover this financial strength. However, revenue forecasts for the next several years show only modest net gains, so a general spirit of fiscal conservatism should continue.

Second, I would like to tell you some of the things that I have learned about the quality and value of the Transactions on Magnetism (T-MAG). I'm sure you already know that it is the archival journal of choice for the data storage industry. But did you know that in 1996 it was the second most cited journal published by the IEEE (after the Journal of Quantum Electronics)! To be fair, this is partly because we publish the largest number of articles, so we are also interested in the average number of citations per published article. An estimate of this is given by the journal impact factor. Only 28 of the 71 IEEE transactions, journals, and letters ranked higher than T-MAG in 1996. (These statistics are from Journal Citation Reports, 1996 Science Edition, filtered by Engineering, Electrical and Electronic.) Another metric of interest to authors is the average time from submission to publication. The IEEE periodically samples the July issue to obtain an estimate of this time. In 1995, the average time from submission to publication for T-MAG was 85 weeks. In 1997, this time was reduced to 51 weeks giving a two-year improvement of 34 weeks. Although we would like to see this reduced further to about 35 weeks, the improvement is impressive, and the performance is significantly better than the IEEE average of about 78 weeks in 1997. Chief Editor Ron Goldfarb and the Associate Editors are to be congratulated for this significant improvement.

Since a large fraction of the papers we publish are associated with conferences, questions are occasionally raised about whether the quality of T-MAG is comparable to those transactions that undergo a more traditional review process. In answer to these questions, the data presented above show that the Transactions on Magnetism is one of the most valued journals published by the IEEE.

## Letter to the Editors

Editor:

*I read in the February 1998 issue of the Newsletter that the paper version of the Newsletter will be discontinued after 1998. I understand that, thereafter, the Newsletter will only be published on the web.*

*I may be a bit old fashioned, but I think the world is going "web crazy" and this decision is more fashionable than wise. I was told that the decision was made to save about ten thousand bucks a year. I believe that this is false savings and that the intangible price to the Society will be much greater.*

*The Newsletter in its present format is a very attractive, available, and informative instrument of the Magnetics Society. It is prominently displayed in my office. Students and visitors often notice it when they visit. I distribute my copy to members of my group and it is often an important factor in motivating them to join the Magnetics Society. In short, it is very good PR for our Society.*

*I believe that there are many members like me who appreciate the Newsletter in its present format and wish to retain the tradition of a paper copy which is mailed to members.*

*Of course, I have some strong personal attachments to this format. As some of the "senior" members may remember, in the beginning the Newsletter was a well written and informative instrument, but it was mimeographed (the technology at the time) and not of the highest printed quality. I served as Newsletter editor from 1972 until 1976 and was fortunate to enlist the Graphics Design Department at Colorado State to "spruce up" the masthead a bit and produce a professional printed document. The format has improved and evolved even more since those days. The Newsletter is now a very professional, well produced, attractive, and informative document which serves the Society extremely well, in my opinion. I, for one, would hate to see our Newsletter go away as a victim of "web crazy" fashionability!*

*Many of us access the web through fast links with direct network connections, and I can click on these sites as easily as anyone. But then again, many of us don't have this fast access to the web. And, as many of us experience daily, this "fast access" is not always fast. Present problems with slow modems, web traffic jams, and the profusion of web material best left undescribed are just the beginning of problems yet to come. While I agree that, on the whole, the web is a good thing, I would rather FIND my Newsletter as a nice surprise in my mailbox rather than fight the web to extract it. And then again, I would rather READ my Newsletter sitting in a comfortable chair by the fire (or pool!). I have to sit at the computer too much already!*

*I wonder how others feel?*

Carl Patton  
Colorado State University

Response from the editors:

*Thank you for your letter. The ADCOM of the IEEE Magnetics Society voted at the January meeting to discontinue the paper version of the Newsletter. This decision was based primarily on financial issues. The added cost to print and to mail the paper newsletter to the approximately 3500 subscribers costs in excess of \$10,000 per year. Whether or not there is a paper version, the web version of the newsletter will continue. Comments from other readers are welcome and the sentiments will be transmitted to the ADCOM.*

## Nominations Sought for 1999 Achievement Award

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

The past award winners were Fred Luborsky 1981, Herb Storm 1982, Harold Lord 1984, Joe Suozzi 1985, Fritz Friedlaender 1986, Andrew Bobeck 1987, Floyd Humphrey 1988, Paul Biringner 1989, Daniel Gordon 1990, Emerson Pugh 1991, Yoshifumi Sakurai 1992, William Doyle 1993, Richard Barker 1994, Mark Kryder 1995, Koosuke Harada 1996, Gordon Slemmon 1997 and Stanley Charap 1998.

Nominations are requested. For your convenience, please use the Achievement Award nomination form obtainable from Fritz Friedlaender, Floyd Humphrey or the IEEE. Any member of the Magnetics Society may nominate a candidate at any time. To be considered for the 1999 award, nominations should be received before November 1, 1998. Please send nominations to:

Floyd B. Humphrey  
Chairman, Achievement Awards Committee  
P.O. Box 722  
Meredith, NH 03253-0722  
Voice/FAX (603) 279-3395  
E-mail FBH@BU.EDU

### ABOUT THE NEWSLETTER

The objective of the IEEE Magnetics Society Newsletter is to publicize activities, conferences, workshops and other information of interest to the Society membership and technical people in the general area of applied magnetics. Copy is solicited from the Magnetics Society membership, organizers of conferences, officers of the Society and local chapters and other individuals with relevant material. The Magnetics Society Newsletter will be published four times a year.

In 1998, the paper version of the Newsletter will be sent to members of the IEEE Magnetics Society and the electronic version, which includes the contents of the paper version plus additional information, is on the Magnetics Society Web Page. Commencing in 1999, the paper version of the Newsletter will be discontinued and the Newsletter will only be published only on the Web at [www.ieee.org/society/mag](http://www.ieee.org/society/mag)

Please send contributions to one of the co-editors:

Dr. Richard H. Dee  
Storage Technology Corporation  
2270 South 88th Street  
Louisville, CO 80028-8110 h  
TEL: 303-673-3976 FAX 303-673-6540  
E-Mail: [richard\\_dee@stortek.com](mailto:richard_dee@stortek.com)

Prof. John Nyenhuis  
Purdue University  
School of Electrical and Computer Engineering  
West Lafayette, IN 47907-1285  
TEL 765-494-3524 FAX 765-494-2706  
E-Mail: [smag@ecn.purdue.edu](mailto:smag@ecn.purdue.edu)

The IEEE Magnetics Society Newsletter is published by the Magnetics Society of The Institute of Electrical and Electronics Engineers, Inc. Headquarters of the IEEE is 345 East 47th Street, New York, NY 10017-2394, \$1.00 per year (included in Society fee) for each member of the Magnetic Society. Printed in USA. Second-class postage paid at New York, NY and at additional mailing offices. Postmaster: Send address changes to IEEE Magnetics Society Newsletter, IEEE, 445 Hoes Lane, Piscataway, NJ 08854-4150.

# IEEE Magnetics Society Distinguished Lecturers

Prof. David Jiles and Prof. Shmuel Shtrikman are completing their assignments as distinguished lecturers for 1997-1998. For 1998, there will be three distinguished lecturers: Prof. Giorgio Bertotti, Dr. Gordon F. Hughes and Prof. Robert L. White. Titles of their talks and contact information are listed below. Links to abstracts can be found at the IEEE Magnetics Society Web page at <http://yara.ecn.purdue.edu/~smag/distlect/distlect.html> Please contact the speaker if you would like a presentation to be made to your organization.

## 1997-1998 Distinguished Lecturers

Prof. David C. Jiles  
Modeling Magnetic Properties of Materials  
Ames Laboratory, Iowa State University  
Ames, Iowa  
TEL 515-294-5655 FAX 515-294-8727  
[gauss@ameslab.gov](mailto:gauss@ameslab.gov)

Prof. S. Shtrikman  
A Short Excursion into Magnetic Levitation  
The Weizmann Institute of Science  
Department of Electronics  
P.O. Box 26  
Rehovot 76 100  
Israel  
FAX +972-8-934-4109  
[feshrtik@weizmann.weizmann.ac.il](mailto:feshrtik@weizmann.weizmann.ac.il)

## 1998-1999 Distinguished Lecturers

Prof. Giorgio Bertotti  
Hysteresis in Magnetism  
IEN Galileo Ferraris, Materials Department  
Corso Massimo d'Azeglio 42  
I-10125 Torino, Italy  
TEL +39 (11) 3919-751 FAX +39 (11) 65 07 611  
[bertotti@ien.it](mailto:bertotti@ien.it)

Dr. Gordon F. Hughes  
Cross-Disciplinary Physics, Tribology, Mechanics,  
Electronics, and Real-Time Systems in Disk-  
Drive Technology (Revisited)  
Center for Magnetic Recording Research  
University of California at San Diego  
San Diego, CA 92093-0401 USA  
[gfhughes@ucsd.edu](mailto:gfhughes@ucsd.edu)

Prof. Robert L. White  
Ultra-High Density Magnetic Recording: What  
are the Fundamental Physical Bounds?  
Stanford Center for Research on Information  
Storage Materials  
Stanford University  
Stanford, CA 94305 USA  
[white@ee.stanford.edu](mailto:white@ee.stanford.edu)

# Call for Nominations for 1999-2001 Administrative Committee

In accordance with Article 4.3 of the By-Laws of the Magnetics Society, the Nominations Committee (NomCom) hereby solicits nominations for the Administrative Committee (AdCom) from all members of the Magnetics Society. This year eight positions on the AdCom for a three-year term beginning January 1, 1999 will be filled. The NomCom – consisting of S.H. Charap, D.I. Gordon, R. Katti, T. Suzuki, and W.D. Doyle (Chairman) – will consider all names submitted and compose a ballot from these inputs.

Please submit a short biography (250 words or less) with each of your nominations. A nomination submitted without a biography will not be considered. The IEEE Membership Number of each nominee must be included with the biography. AdCom members who have served two consecutive 3-year terms are not eligible for election without taking a one-year break. Also, please be advised that a petition for a nominee, signed by a minimum of 25 society members in good standing, will automatically place that nominee on the ballot. See list of AdCom membership below.

The Nominations Committee will work according to the following timetable:

**June 12:** Call for Nominations will be received by all eligible Magnetics Society members.

**July 10:** Deadline for receipt of nominations (with biographies) by the NomCom Chairman.

**Aug. 7:** Selection of nominees for AdCom ballot completed.

**Aug. 21:** Ballots for election of eight AdCom members mailed to 1998 AdCom members.

**Sept. 4:** Deadline for receipt of AdCom ballots by the NomCom Chairman.

**Sept. 18:** Election of eight new AdCom members completed.

**Sept. 18:** Ballots for election of 1999 officers mailed to 1999 AdCom members.

**Nov. 6:** Deadline for receipt of officer ballots by the NomCom Chairman.

**Nov. 20:** Notification of results to Magnetics Society President and IEEE Technical Activities Board Chairman.

Please send all nominations and biographies to the NomCom Chair early enough so that they are received by the deadline date (July 10, 1998). His contact information is as follows:

Bill Doyle, Nominations Committee Chairman  
The University of Alabama, MINT Center  
P.O. Box 970209, Tuscaloosa, AL 35487-0209 USA

TEL 205-348-2508, FAX 205-348-2346, email: [wdoyle@mint.ua.edu](mailto:wdoyle@mint.ua.edu)

## AdCom Membership

*Term expires December 31, 1998*

A. Chaiken, F.J. Friedlander, R.F. Hoyt, D.C. Jiles, J.H. Judy, D.N. Lambeth, M. Pardavi-Horvath, P.E. Wign

*Term expires December 31, 1999*

G.E. Fish, T. Jagielinski, F.E. Luborsky, I. Mayergoyz, E. Murdock, J.A. Nyenhuis, K. O'Grady, J. Zhu

*Term expires December 31, 2000*

G. Bertotti, S.H. Charap, E.D. Dahlberg, R. Gerber, R.S. Indeck, R. Katti, Y. Miura, S.X. Wang

*Term expires December 31, 2001*

Eight to be elected, (Judy, Lambeth Hoy, Pardavi-Horvath, and Wigen are not eligible for re-election because they have served two consecutive terms.)

# CONFERENCE CALENDAR

- June 22-24, 1998** **IEEE 1998 International Nonvolatile Memory Technology Conference**, Albuquerque, New Mexico, USA For information contact: Gail Wesling, Publications 12250 Saraglen Drive Saratoga, CA 95070 USA Phone: 408-257 5702 Fax: 408-285-9670 g.wesling@ieee.org <http://www.sandia.gov/eqrc/INVMTC/INVMTC.html>
- June 24-26, 1998** **16th Conference on New Magnetic Materials for Microelectronics** Moscow State University, Moscow, Russia For information contact: Prof. Alexander Logginov Moscow State University Physics Department Moscow 119899 Russia asl@osc.phys.msu.ru <http://yara.ecn.purdue.edu/~smag/Conf/nmmm.htm>
- July 10-11, 1998** **International Workshop on Finite Elements for Microwave Engineering: FROM ELECTROMAGNETICS TO MICROWAVE ELECTRONICS SOFTWARE** For information contact: CONFERENCE SECRETARIAT FEM-POITIERS 98 IRCOM, University of Limoges 123 avenue Albert-Thomas 87060 Limoges Cedex, France Fax: +33-5-55-457-514 dir@ircom.unilim.fr <http://yara.ecn.purdue.edu/~smag/Conf/iwfe.htm>
- July 13-17, 1998** **1998 NSIC Annual Meeting** DoubleTree Hotel, Monterey, CA
- July 29-31, 1998** **APMRC '98** Pan Pacific Hotel, Singapore For information contact: Bharat Bhushan Ph: (614) 292-0651, FAX (614) 292-0325
- August 17-19, 1998** **The Magnetic Recording Conference TMRC '98** For more information, contact: Yung Yip Imation Corp. 3M Center 236-GN-06 St. Paul, MN 55144-1000 USA TEL (612)704-5091 FAX: (612)737-2801 E-mail: yyip@imation.com <http://www-iist.scu.edu/>
- August 23-26, 1998** **ISPM '98 Fourth International Symposium on Physics of Magnetic Materials** Sendai, Japan For information, contact: K. Takanashi ISPM '98 Secretary Magnetic Materials Laboratory IMR, Tohoku University Katahira 2-1-1, Aoba-ku Sendai 980-77 Japan TEL: +81-22-215-2098 FAX: +81-22-215-2096 ispm98@imr.tohoku.ac.jp
- August 30 - September 3, 1998** **Fifteenth International Conference on Rare Earth Magnets and their Applications** K-H MullerREM XVINstitut fuer Festkoerper und Werkstofforschung Postfach D-01171 Dresden, Germany Tel: +49 351 4659 237 Fax: +49 351 4659 541 d.hinz@ifw-dresden.de
- August 31 - September 2, 1998** **7th International Conference on Magnetic Recording Media MRM'98** Maastricht, Netherlands Info at: <http://www.el.utwente.nl/mrm98>
- September 2-4, 1998** **International Conference on Electrical Machines** For information, contact: Prof. Dr. H. Bulent Eftan ICEM '98 Conference Office Middle East Technical University Electrical and Electronics Engineering Dept. Inonu Bulvari 06531 Ankara Turkey TEL +90 312 210 23 59 FAX +90 312 210 12 61 +90 312 210 11 05 icem98@metu.edu.tr <http://icem98.metu.edu.tr>
- November 1-6, 1998** **FIFTH INTERNATIONAL SYMPOSIUM ON MAGNETIC MATERIALS, PROCESSES AND DEVICES** Boston, Mass. USA For more information, contact: L.T. Romankiw IBM Corporation Thomas J. Watson Research Center P.O. Box 218 Yorktown Heights New York 10598 USA, Phone: (914) 945-1208, Fax: (914) 945-4081 E-mail: roman@watson.ibm.com
- November 9-12, 1998** **43rd Conference on Magnetism and Magnetic Materials**, Miami, Florida USA For info: Diane Suiters, Courtesy Associates 2000 L Street NW, Suite 710 Washington, DC 20036 TEL: 202 973-8668 FAX: 202 331-0111 email magnetism@courtesyassoc.com <http://www.ieee.org/society/mag>

IEEE Headquarters  
345 East 47th Street  
New York, NY 10017-2394

BULK RATE U.S. POSTAGE PAID ROCHESTER, MN PERMIT #289
---

