

From The President *continued from page 1*

(Education), Erol Girt (Publicity), Kaizhong Gao (Finance) and Takao Suzuki (Nominations). Under the guidance of Liesl and her leadership team, the Society has grown the reserve fund to over \$4.9M, supported Summer Schools in Europe and South America, sent four Distinguished Lecturers each year to more countries than ever before, continued the tradition of supporting student travel and best papers at conferences, and supported activities such as networking receptions, lounges, and women's networking events at INTERMAG and MMM conferences.

In addition, we have increased our support of smaller, new conferences, strengthened our sister society agreements, and continue to look to broaden and strengthen our membership base. This a vibrant professional society of which the members can all be proud, and the outgoing management team deserves a big round of applause.

We ended 2014 with MMM in Hawaii, which from all reports was a resounding success. Due to unforeseeable events, I unfortunately needed to cancel my plans to attend at the last minute, but I understand from everyone that the venue was spectacular, as was the technical program. Thank you to the Conference Chair Chris Leighton and the whole MMM 2014 management team for all their hard work and a great success.

I now enter 2015 with big shoes to fill. Along with my assuming the office of President, Manuel Vasquez will advance from Secretary-Treasurer to President-Elect, and I congratulate Pallavi Dhagat on election to Secretary/Treasurer. We also welcome the six newly elected AdCom members: Franca Albertini, Bernard Dieny, Dafine Ravelosona, Rudolf Schäfer, Alexandru Stancu, Thomas Thomson, Jian-Ping Wang and Roger Wood along with the 12 continuing members. In

addition, Kai Liu was elected to fill Pallavi Dhagat's vacant seat as a result of her election to Secretary/Treasurer.

I would like to introduce the new Committee Chairs, who have been approved by the AdCom and to thank them for accepting the challenge of serving the Society. I am confident that the Society will be in good hands under their leadership along with the guidance from AdCom. The Committee Chairs are:

Conference Executive Committee – Randy Victora
Technical Committee - S.N. (Prem) Piramanayagam
Honors and Awards Committee - Burkard Hillebrands
Distinguished Lecturer Committee - Sara Majetich
Education Committee – Chih-Huang Lai
Membership Committee - Laura Heyderman
Publicity Committee – Philip Pong
Finance Committee - Mingzhong Wu
Chapters Committee - June Lau
Nominations Committee – Liesl Folks
Publications Committee - Ron Goldfarb
Planning Committee – Manuel Vázquez

Finally, I encourage all members to become active members in the Society. Magnetism continues to be a vibrant research field with many new and exciting fundamental discoveries as well as potential new applications. As a result, the balance of areas of interest within the Society continually evolve, presenting both challenges and opportunities for the Society membership and for our conferences. In the coming years, it is likely this trend will continue, and I encourage all in the magnetism community to help identify the growth areas in magnetism. Please consider volunteering for activities of interest to you, and continue to bring forward all your suggestion and ideas for the Society.

Bruce Terris can be reached via: bruce.terris@ieee.org.

New Senior Members

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

October 2014: Ebrahim Shahrodi and Yan Zhou.

November 2014: Predrag Hadzibabic and Deliang Liang.

For further information, visit the IEEE Web site at:

www.ieee.org/membership_services/membership/grade_elevation.html

Takao Suzuki Receives 2015 Achievement Award

Submitted by Isaak Mayergoyz, Achievement Award Subcommittee Chair

Each year the IEEE Magnetics Society honours one of its outstanding members for his or her lifetime professional achievement. This is the highest award of the Society and is given for scientific achievements, technical achievements and service to the Society. The award is presented at the INTERMAG conference each year, and consists of a diploma with citation and a cash prize.

Prof. Takao Suzuki receives the 2015 Achievement Award for “contributions to the micromagnetics of materials with high magnetocrystalline anisotropy and their applications in magnetic recording media.”

Prof. Suzuki received his BS and MS degrees in applied physics from Waseda University, Japan in 1962 and 1964 respectively, and a PhD in electrical engineering from the California Institute of Technology in 1969. He worked as a postdoctoral fellow at the Max Planck Institute in Stuttgart, Germany from 1969 through 1972, and then served as an assistant professor and associate professor at Tohoku University in Sendai, Japan from 1972 through 1988.



From 1988 through 1995, he worked as a research staff member at the IBM Almaden Research Center in San Jose, California. In 1995, Prof. Suzuki joined Toyota Technological Institute in Nagoya, Japan where he was Vice President and a principal professor until 2010. Prof. Suzuki currently holds the position of Endowed Chair, Director for Center for Materials for Information Technology (MINT Center), and Professor of the Electrical and Computer Engineering, and Metallurgical and Materials Engineering at the University of Alabama in Tuscaloosa, Alabama, USA. He also is the Director for the International Consortium for “rare-earth free permanent magnets sustainable for the next generation” sponsored by the G8 national councils.

In his early career (the 1960s through the 1980s), Prof. Suzuki worked on magnetization distributions including domain walls, ripple structures and vortex in thin films mainly by Lorentz electron microscopy. From the 1970s through the 1990s, he

worked on rare-earth-transition metal amorphous thin films for magneto-optical recording media applications. From the 1980s through the present, he has been working on high magnetic anisotropy materials of various types. Prof. Suzuki was the first to experimentally show the strong correlation of the magnetic anisotropy of the ordered phase $L1_0$ (Fe-Co-Ni)Pt alloy thin films with the number of valence electrons. In the early 2000s, he and his group for the first time experimentally realized the Fe_3Pt alloy thin films that exhibit a very high magnetic anisotropy of the order of 10^7 erg/cc at room temperature. He

was one of the IEEE Magnetics Society Distinguished Lecturers in 2007 on the topic of “High Magnetic Anisotropy Materials.” Most recently, he has been working on rare-earth free high magnetic anisotropy materials.

Prof. Suzuki has received awards including the Society Award of the Magnetics Society of Japan (2010), IEEE Magnetics Society Distinguished Lecturer (2007), and the Technical Achievement Award of the Magnetics Society of Japan (1999).

Prof. Suzuki was President of the IEEE Magnetics Society during 2011-2012,

and he is an IEEE Fellow. He is Professor Emeritus of Toyota Technological Institute and has published more than 300 scientific papers in peer-reviewed journals, four books, and holds 17 patents issued in the USA, Japan, and other countries.

Prof. Suzuki joins a distinguished list of past recipients: Fred Luborsky 1981, Herb Storm 1982, Harold Lord 1984, Joe Suozzi 1985, Fritz Friedlaender 1986, Andrew Bobeck 1987, Floyd Humphrey 1988, Paul Biringier 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, Stan Charap 1998, Dave Thompson 1999, Denis Mee 2000, Fred Hagedorn 2001, Sun-ichi Iwasaki 2002, Carl Patton 2003, Yutaka Sugita 2004, Robert Fontana 2005, Neal Bertram 2006, John C. Mallinson 2007, Jack H. Judy 2008, Roger Wood 2009, Isaak Mayergoyz 2010, Jian-Gang (Jimmy) Zhu 2011, John Slonczewski 2012, Michael Mallory 2013 and Randy Victoria 2014.

Magnetics Society New IEEE Fellows 2015

Submitted by Diane Melton, Executive Director, IEEE Magnetics Society



Charanjit Singh Bhatia



Ming Cheng



Mircea Popescu



Yoshihiro Shiroishi



Jian-Ping Wang



Dieter Weller

Six members of the IEEE Magnetics Society were recently elected as 2015 IEEE Fellows:

- Charanjit Singh Bhatia, “for contributions to magnetic head-media interfaces and tribology;”
- Ming Cheng, “for contributions to the development and control of stator permanent magnet machines for vehicular propulsion and wind power generation;”
- Mircea Popescu, “for contributions to AC induction and permanent magnet electric machines;”
- Yoshihiro Shiroishi, “for leadership in the development of high density magnetic recording technologies and devices;”
- Jian-Ping Wang, “for contributions to magnetic material and spintronic devices for magnetic recording, information processing and biomedical applications;” and
- Dieter Weller, “for contributions to heat-assisted magnetic recording media.”

Musical Magnetics

By Jennifer Fiske, Deputy Executive Director, IEEE Magnetics Society



The Bierstube - we all know the meaning of that word! A gathering at the end of the conference day when scientists, colleagues and friends gather for beer and fellowship.

At the MMM 2014 Conference, held this past November in Honolulu, Hawaii, the Bierstubes were held in a hotel space that had a grand piano.

Having worked with the MMM group for many years, I know physicists love music, but imagine my surprise when, one afternoon, I heard someone playing Gershwin, then swing, then jazz!

Miroslav Marysko, of the Institute of Physics of the ASCR in Prague, was at the keyboard. A crowd had gathered, enjoying the music with their refreshments. Dr. Marysko told us music is his hobby, and he played for several afternoons. He also presented two papers at MMM.

It was a delightful addition to an old tradition!

Hong Kong Chapter - A Year In Review

Philip Pong, Hong Kong Chapter Chair

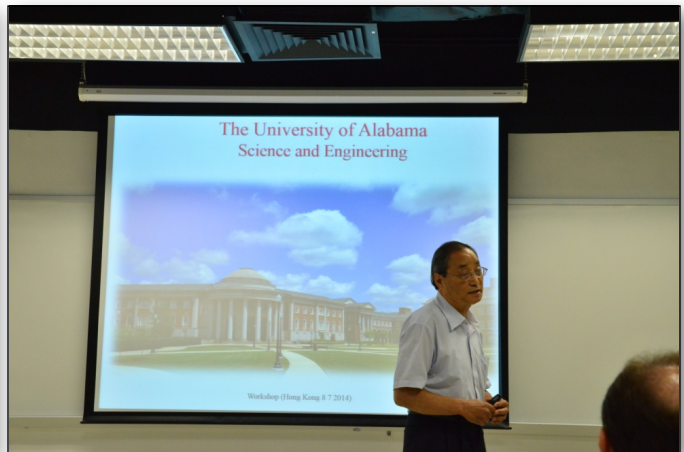
In 2014, the Hong Kong Chapter organized three Distinguished lectures and one technical seminar. Prof. Tim St. Pierre visited Hong Kong on April 11 and gave his distinguished lecture at both the University of Hong Kong and the City University of Hong Kong. Prof. Hans-Benjamin Braun presented his lecture at the University of Hong Kong on June 27 and Prof. Qiliang Li, from George Mason University, visited us on June 30. He talked on his research on novel flash memory, two-dimensional semiconductors and topological insulators.

Our flagship event, the IEEE Magnetics Society Symposium on Magnetism and Magnetic Technologies, was organized again this year. This Symposium featured two keynote speeches from Prof. Takao Suzuki from the University of Alabama and Prof. Ko-Wei Lin from the National Chung Hsing University. Prof. Suzuki talked on rare-earth-free, high-magnetic-anisotropy materials and Prof. Lin gave his talk on the modification of magnetic properties of thin films by ion-beam bombardment. There were three invited talks by Dr. Frank Klose (Australian Nuclear Science and Technology Organisation), Dr. Antonio Ruotolo (The City University of Hong Kong), and Dr. Yan

Zhou (The University of Hong Kong). In addition, students and postdocs contributed nine talks in total. Dr. Li Li (The University of Hong Kong) was presented with Best Research Award for her work on biomedical sensing platform with spintronic sensors and magnetic nanoparticles. Qi Shao (The City University of Hong Kong) was presented with Best Presentation Award for her talk on surface-enhanced Raman scattering (SERS) based on non-polar Mn-substituted ZnO/Au substrates.

The Chapter Web site was updated with informative tourist materials for colleague visiting the Hong Kong Chapter. We suggested 10 places you must visit in Hong Kong. Please have a look at our website <http://www.eee.hku.hk/ieec/magsoc>, and you may find Hong Kong your next destination.

In 2015, Dr. Dennis Leung (Hong Kong Polytechnic University) and Dr. Antonio Ruotolo (The City University of Hong Kong) will be the Chairman and Vice-Chairman of the Hong Kong Chapter.



Conference Calendar

- May 11-15, 2015 INTERMAG
Beijing, China
www.intermagconference.com
- June 1-4, 2015 9th International Conference on Power Electronics ECCE Asia (ICPE 2015)
Seoul, Korea
www.icpe2015.org
- June 5-6, 2015 PELS Workshop on Emerging Technologies: Wireless Power (2015 WOW)
Seoul, Korea
- June 23-25, 2015 Frontiers in Biomagnetic Particles IV
Telluride, Colorado, USA
<http://magneticnanoparticle.com>
- July 5-10, 2015 20th International Conference on Magnetism (ICM2015)
Barcelona, Spain
<http://www.icm2015.org>
- July 12-17, 2015 22nd International Colloquium on Magnetic Films and Surfaces
Krakow, Poland
<http://icmfs2015.agh.edu.pl/>
- September 6-10, 2015 European Conference on Molecular Magnetism (ECMM 2015)
Zaragoza, Spain
<http://ecmm2015.unizar.es>
- January 11-15, 2016 Joint MMM-INTERMAG Conference
San Diego, California, USA
www.magnetism.org

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

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.

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