

EMC Society Board of Directors Meeting

*The Westin Hotel
Greenville, South Carolina
March 14, 2008*

THE PRESIDENT'S OPENING REMARKS/ CONSENT AGENDA

President Joffe called the meeting to order at 9:00 am. Members present included B. Archambeault, H. Benitez, C. Brench, A. Drozd, R. Ford, B. Goldblum, F. Heather, D. Heirman, D. Hoolihan, T. Hubing, E. Joffe, F. Maradei, M. Montrose, J. Norgard, J. O'Neil, G. Pettit, R. Scully, D. Staggs, D. Sweeney, R. Wallen, and T. Yoshino. Members absent included R. Davis and W. Kesselman. Guests included J. LaSalle and K. Williams. President Joffe reviewed Board meeting protocol, the IEEE code of ethics, and upcoming activity, including a report from TAB (Young Career Support/GOLD, Technology Roadmap Initiative, New Membership Model and TAB/MGA cooperation/coordination), Global Outreach Activities (symposia, outreach and Sections Congress), and the Consent Agenda. The Board approved the Consent Agenda.

NORM VIOLETTE TRIBUTE

Dan Hoolihan presented a tribute to Norm Violette, a past Board member who died earlier this year. A moment of silence followed.

PAST PRESIDENT REPORT

Andy Drozd reported on the recent activity at IEEE headquarters in Piscataway, NJ related to the EMC Society's 50th Anniversary. Briefly, the EMC Society arranged to have one of its 50th Anniversary pins flown on a space shuttle flight as part of the celebration of its 50th anniversary. Bob Scully, a member of the Board of Directors of the EMC Society and a senior engineer with NASA, made the necessary arrangements through normal approval cycles. A designated pin was placed on STS-118 which

was a successful shuttle flight flown from 8-21 August 2007. The unique pin was mounted on a specially designed plaque and was presented to the IEEE for display at the Operations Center in Piscataway on 14 January 2008. Mr. Drozd noted that this was also a lead story in the IEEE Institute: "Most IEEE societies celebrate a major anniversary with, say, a commemorative pin or a plaque and perhaps a special event. But with NASA's help, the IEEE Electromagnetic Compatibility Society took its 50th anniversary celebration to new heights." Find out what happened at <http://bmsmail3.ieee.org:80/u/10173/06442354>.

FINANCE COMMITTEE REPORT

Andy Drozd presented the finance committee report. He reviewed Budget Control Variables and Inflationary Increases – income (Membership Fee–Transactions Page Count and Number of Issues, Optional Member Transactions Print Cost and Non-Member Subscription List Price) as well as expenses (officer and committee budgets). The Board approved an increase in membership dues from \$25 to \$30 effective with the CY09 membership cycle and to allow the EMC-S FinCom to make appropriate adjustments in order to assure a balanced budget. Mr. Drozd noted the last time the EMC-S dues were raised was in 2003 when the dues were raised from \$15 to \$25. The Board also approved the non-member subscription fees price list in accordance with the recommended price as determined by IEEE for 2009. The Board approved an increase in the cost of the print copy of the Transactions on EMC from \$15 to \$20 for regular full members in CY09. Lastly, the Board approved preliminary officer, committee and other budgeted expenses in the amount of approximately \$320K to allow the EMC-S FinCom to make adjustments in order to assure a balanced budget. John LaSalle, assistant Treasurer, presented information related to a five-year budget forecast. He presented information on real time budget tracking. He also summarized IEEE travel guidelines, including the new IEEE travel authorization form and the new expense report form. In the absence of Treasurer Warren Kesselman, his report was presented by Mr. LaSalle. Regarding 2007 Operations, as of March 3, IEEE's 2007 Post-Closing Pre-Audit financials (known as the FM-13 report) have not been posted on the Web. However, Mr. Kesselman has received a preliminary FM-13 Cost Center summary that he believes is substantially close to final. The preliminary summary indicates that EMC-S's 2007 operating deficit will be in the order of -\$206.8k. EMC-S's share of investment return may be about \$6.1k. Thus, the projected overall net deficit will be about -\$200.7k. The largest Cost Center variance between actual and budget is the Conference net (\$299.9k budget/\$126.1k actual). The next largest variance was the Newsletter net expense (78.8k Actual/52.6k Budget). The



PHOTOS BY JANET O'NEIL

Board members Fred Heather (left) of the Navy Pax River and Elya Joffe of KTM Project Engineering prepare for the start of Mr. Joffe's first meeting as EMC Society President.

Committee/Other Cost Center was close to budget (250.5K budget/260.2K actual).

COMMUNICATION SERVICES

Ghery Pettit, Vice-President for Communication Services, presented his report. He discussed the Transactions on EMC page count for 2009. The Board approved his recommendation to set the budget for the 2009 page count at 1116, up from 1016 for 2008. Mr. Pettit also noted that the position of the Public Relations Chair is open. Anyone interested in serving as Chair should contact Mr. Pettit. Discussion ensued about having an electronic version of the Newsletter available to the members and those who wish to opt out of receiving a print copy. Mr. Pettit showed a summary of Newsletter finances since 2001. In 2002, the Newsletter started including paid advertising. At this time, the Newsletter went to full color and the page number continued to expand over the years. Since advertising was started, on average, the paid advertising income supplements the Newsletter expenses by approximately 50%. President Joffe requested that an ad hoc committee be formed to review this "opt out" process for the Newsletter, budget issues, and transitioning from a newsletter to a magazine. Mark Montrose volunteered to be a member of this committee. Mr. Pettit requested that anyone interested in being a member of this committee contact him. Next, Janet O'Neil, Editor, reported on activity since the last Board meeting. The Fall 2007 issue was 108 pages and focused on activity at the 2007 IEEE International Symposium on EMC in Honolulu, HI. The issue included regular articles and two practical papers, including "Ground Based Air-Conditioning System Interfered Aircraft Communication Channel" by Norbert Kohns and a paper on loop inductance by Clayton R. Paul. There were 14 pages in the special History/Anniversary section, including a reprint of the second most referenced paper in the Transactions on EMC. Also featured in this section was a review of the 50th anniversary activities at the EMC 2007 symposium. Ken Wyatt recruited a team of volunteer photographers to help him capture the numerous activities at the symposium. The issue is filled with numerous photos from his team. Financially, the Fall 2007 issue cost \$27,633 to produce, print and mail to the members. 5,351 issues were printed. \$18,434 was billed in ad revenue with a net of \$9,586 going to the EMC Society to offset the cost of the issue. This was the first issue to be mailed at the increased postage rate for expedited delivery to EMC Society members outside the US. Comments from non-US based members have been favorable that the issue was received much quicker than previously. The Winter 2008 issue is at the printer. It is



The Board debates a discussion point during the presentation of John Norgard, Vice-President for Technical Services.

100 pages and includes many of the standard articles as well as new President Elya Joffe's first President's Message. There are two practical papers, including the second part of Dr. Paul's paper on inductance. This issue is being mailed as a shrink-wrapped set with the EMC 2008 Advance Program. A higher number of issues than normal will be printed as the mailing list also includes nonmembers who attended EMC 2006 and EMC 2007. Financially, the issue is estimated to cost \$24,357, with \$20,915 billed in ad revenue (a net of \$10,876 going to the EMC Society). On the EMC 2008 Advance Program that is

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Board members Ghery Pettit (left) of Intel and Bruce Archambeault of IBM visit during one of the Board meeting breaks.

shipping with this issue, this document billed \$11,696 in ad revenue, with a net of \$6,082 going to the EMC Society. Related to general Newsletter information, Ms. O'Neil reported she worked with Perry Wilson, Editor of the IEEE Transactions on EMC, to send an e-mail blast in January to EMC Society members announcing the mailing of the Fall 2007 issue of the Newsletter and posting to the Society's website. The table of contents for the current IEEE Transactions on EMC was announced so members will know what new papers have been uploaded to Xplore. Ms. O'Neil and Dr. Wilson intend to issue a quarterly e-mail blast to the EMC-S members about the latest issues of the Newsletter and IEEE Transactions on EMC. Ms. O'Neil checked with IEEE about having one PDF of the entire Newsletter available on the website for downloading. She learned this was not practical, as it would have to be a very large file size in order to print photos and graphs/diagrams in the practical papers with a decent quality. It would also take a very long time to download. Don Sweeney has volunteered to work with Ghery Pettit and IEEE management to see what other options are available. A summary report of the four issues of the EMC Newsletter in 2007 was presented. This shows the total 2007 Newsletter expense for composition, printing and mailing to be \$105,226. Net ad revenue to the Society was \$52,912 in 2007. Ms. O'Neil plans to attend the IEEE Panel of Editors meeting on April 4-5, 2008 in Los Angeles. Mr. Pettit relayed some news from Todd Robinson, Newsletter Associate Editor for Chapter Chatter. There has been a diverse group of Chapters that send in reports for Chapter Chatter. A few of the "old faithful" chapters continue to give input every quarter. Therefore, the Chapter Chatter sections in the Newsletter have been very interesting. However, there are several larger West Coast chapters of note that he never hears from. Also, he continues to have one to two chapters outside of the USA that try to send him an IEEE chapter report form for their input. He will continue the education process with these chapters. Language may be a problem. He was not able to attend the Chapter Chair Retreat in Hawaii, so he was unable to solicit the chapter chairs about sending in reports. He will likely be able to attend the meeting in Detroit. Mr. Robinson needs EMC stories! Anyone with an interesting and/or humorous EMC story can contact him at todd.robinson@ckc.com. Lastly, he would still like to set up an FTP site for chairs to

upload photos and reports to him. Mr. Pettit next presented the report of Perry Wilson, Editor-in-Chief of the Transactions on EMC. As of March 12, 2008, 60 manuscripts have been submitted in 2008. This rate projects a total of 311 submissions for the full year, some 30 more than last year. The final number of submissions in 2007 was 283. Month-by-month statistics are shown in Table 1 going back to 2003 (thanks to Prof. Canavero for the 2003-2006 data). The submission rate is trending up, nearly doubling since 2003. The largest increase has been in the number of submissions from Region 10 (Asia, and China in particular).

Table 1. New Paper Submissions

	2003	2004	2005	2006	2007	2008
January	11	10	19	18	27	25
February	13	20	11	79 (*)	11	26
March	13	12	16	14	21	09***
April	13	14	16	17	20	
May	19	20	14	20	31	
June	11	23	21	21	23	
July	29	15	23	15	31	
August	15	16	11	28	23	
September	19	17	17	20	16	
October	16	17	11	22	35	
November	9	9	16	0	26	
December	10	14	12	0	19	
Total	178	187	187	301 (**)	283	311(****)

(*) Including 75 manuscripts for the special issue on EMC Singapore

(**) The total is 226 if the 75 special-issue papers are not considered

(***) As of March 12, 2007

(****) Projected at current rate

Regarding Transactions production, both the November 2007 and February 2008 issues were mailed in their respective months and on time in production. Dr. Wilson has submitted the papers for the May 2008 issue ahead of the nominal IEEE timetable. There is currently no backlog of unpublished papers. The 2007 final page count was 976, very near to the 1000 page estimate. On Special Issues/Sections, for 2008, a Special Issue on Aerospace EMC is planned with R. Perez and Jim Lukash as Guest Editors. Dr. Perez has invited 20 authors who have committed to write papers on various aspects of Aerospace EMC. There are 10+ papers nearing the end of the review cycle. The Special Issue is scheduled for August 2008. For 2009, Prof. Vladimir Rakov (U. Florida) and Prof. F. Rachidi (TU Lausanne) have submitted a proposal for a Special Issue on Lightning. A special issue on the same topic was published in Nov.1998 (134 pages) with F. Canavero, M. D'Amore, C. Mazzetti, and C. Nucci as Guest Editors. Prof. Rakov is confident that progress warrants another special issue. For 2010, Prof. Erping Li (U. Singapore) would like to propose a special issue on PCB Packaging EMC. EMC in electronics design is a strong area of contribution from Asia, and China in particular. This would be a good opportunity to highlight research in this area. Regarding Associate Editors, at the beginning of 2008 there were 19 Associate Editors (AEs): 3 from Regions 1-7, 12 from Region 8, and 4 from Region 10. Dr. Wilson plans to invite an AE from Japan. Long term, an AE from Region 9 (Central and South America) should be considered. He plans to attend the 2008 IEEE Panel of Editors Meeting and interact with Mr. George Criscione who produces the EMCT. He intends to gather more information about the "impact factor" and where the Transactions on EMC ranks related to other IEEE journals. Dan Hoolihan then reported as Chair of the History

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Board members (from left) Colin Brench of Southwest Research Institute in San Antonio, Dan Hoolihan of Hoolihan EMC Consulting and Kimball Williams of Denso International America enjoy a lighter moment during the Board meeting.

Committee. There were two successful concluding events as a final wrap-up to the celebration of the 50th Anniversary of the EMC Society of the IEEE in 2007, namely: 1) - The awarding of a plaque celebrating the 50th Anniversary of the Society to the President of the IEEE. The plaque was a three-way effort between NASA, the IEEE, and the EMC Society. Bob Scully, an EMC-S member and an employee of NASA, was instrumental in getting the Society's 50th Anniversary lapel pin on the shuttle and in developing the plaque that contains the pin. 2) - With the help of the IEEE History Center, an exhibit honoring the 50th Anniversary of the EMC Society has been established at the IEEE Operations Center. This display showcases some historic EMC receivers, the EMC-S 50th Anniversary commemorative booklet, pictures of prominent EMC people and events, and the CD that captures the history of the EMC Society. In addition to the above, Jerry Ramie has produced a CD on the Founder's luncheon talks that were given on July 10, 2007 in Hawaii. These talks are similar to the ones given on Thursday at the symposium. The history committee is in the process of reviewing these CDs and deciding what to do with them. The CD on the history of the first 50 years of the EMCS and the DVD on the Founders EMC War Stories have both been distributed to about 60 chapters of the EMC Society for their use in local chapter meetings. Special historical articles and reprints of famous EMC-S Transactions papers continue to be published in the quarterly newsletter of the EMC Society. Related to the EMC-S website, Mr. Pettit advised that he continues to work with Shannon Archambeault to resolve broken links and update content on the web site. No report was received from Ray Perez, IEEE Press Committee Chair.

STANDARDS SERVICES

Don Heirman, Vice-President for Standards, presented his report. Standards activity covers three major areas: The Standards Education and Training Committee (SETCom), the Standards Advisory and Coordination Committee (SACCom), and the Standards Development Committee (SDCom). The SETCom chair is Qiubo Ye and the vice-chair is Professor Johan Catrysse. The SACCom Chair is Dave Guzman. The

SDCom continues to be chaired by Stephen Berger with Ed Hare as the secretary. The Standards Development Committee met on 13 March; SETCom/SACCom did not meet; SACCom submitted a separate report. Approximately 16 people attended and reviewed the status of various standards projects and interactions with IEC and CISPR, including: EM site survey (Std. 473) - New chair is Vil Arafles - 80 percent or so completed, but still no progress since Hawaii and before meetings since; RF absorber evaluation (Std. 1128) - Current until 2011; VDT emissions (Std. 1140) - Current until 2011 - No issues at this time; Gasket character. (Std. 1302) - Draft received and voted in SDCom as being ready for ballot. Submitted for ballot on 3/12/2008; Probe calibration (Std. 1309 amd) - New Working Group (WG) chair - report expected by May meeting; Category D liaison with IEC SC77B planned; RF filter performance (P1560) - Current until 2010. No issues at this time; Computational EM (P1597.1) - Ballot pool formed. Submitted for ballot on 3/12/2008. Minor problems with files expected to be resolved by next week per Mr. Drozd; Computational EM (P1597.2) - Ballot pool formed. Submitted for ballot on 3/12/2008. Minor problems with files expected to be resolved by next week per Mr. Drozd; Intentional EMI to Computers (1642) - Ballot delayed. PAR extended to 2011 - SDCom wants to see draft; Line replaceable module (P1688) - Draft 80% stable. First draft to be completed - Spring 2008; TV emission measurements (Std. 187) - Reaffirmed, with comments. SDCom submitted resolution of comments. Interest by CISPR SC I. Mr. Heirman announced that Steve Berger has resigned as Chair of P1900 (Interference/coexistence-SDR). Joanna Geunin, Co-Chair, is now Chair. The committee is waiting for the creation of SCC-41 by IEEE. Mr. Berger will act as a liaison between SDCom and SCC-41. On P1775 (Powerline Communications Equipment EMC Testing), the joint sponsor committee of 12 had deemed the standard was not ready for ballot. P1775 formed a Task Group to resolve comments from the committee of 12. The work was completed, with many comments accepted, some were deemed already decided within the WG. P1775 will meet in March 24-25 to vote standard out of WG and back to sponsors. In other 2008 Standards activity, the committee reviewed the web site and agreed to work with the EMC-S web master via the VP for Communications to update by the Detroit symposium. The committee will continue to meet the day before each Board meeting with time for SACCom and SETCom meetings planned depending on need. An SDCom telecom is scheduled for 28 April 2008 to review standards progress. The committee will hold its normal two-part SDCom meeting, SETCom and SACCom meetings at the Detroit symposium. Possible new initiatives include improving communications between the IEEE EMC Society and other Standards bodies and organizations, holding a two day workshop with selective IEC/CISPR committees and the IEEE EMC Society Standards leadership on topics of similar technical interest, fostering the cooperation and harmonization where possible between the two organizations and more category D liaisons with the IEC and CISPR committees where joint development is mutually beneficial. This will be discussed at the next CISPR meeting in Osaka, Japan with a target for these initiatives set for the first quarter of 2009.

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Introduction to Electromagnetic Compatibility, 2nd Edition

Clayton R. Paul

9780471755005 Cloth • 1016pp • \$130.00 • December 2005
Wiley

Here is the second edition of the text that has come to be known as the "EMC Bible." It has been substantially rewritten and revised to reflect the developments in the field of EMC.

New material includes the latest U.S. and international regulatory requirements, PSpice throughout the textbook to simulate EMC analysis solutions, and methods of designing for Signal Integrity. Also, detailed examples and review exercises following the discussion of each topic are now included.

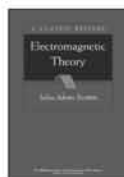


Also by Paul

Analysis of Multiconductor Transmission Lines, 2nd Edition

Clayton R. Paul

9780470131541 • Cloth • 780pp • \$160.00 • October 2007 • Wiley-IEEE Press



Electromagnetic Theory

Julius Adams Stratton

9780470131534 • Cloth • 640pp • \$100.95 • January 2007
Wiley-IEEE Press

This classic reissue of the original features a foreword by Dr. Donald G. Dudley that details the book's contribution to the field and an introductory biography by Dr. Paul E. Gray,

former MIT President and colleague of Dr. Stratton. Areas discussed include Hansen vector wave functions, the outstanding treatment of phase and group velocity, and the Stratton-Chu formulation for integration of the vector Helmholtz equations.



Electromagnetic Fields, 2nd Edition

Jean G. Van Bladel

9780471263883 • Cloth • 1176pp • \$155.00 • May 2007
Wiley-IEEE Press

This definitive text and reference on electromagnetic fields has been updated and expanded to twice its original content.

With an emphasis on basic principles and a focus on electromagnetic formulation and analysis, *Electromagnetic Fields, Second Edition* includes detailed discussions of electrostatic fields, potential theory, propagation in waveguides and unbounded space, scattering by obstacles, penetration through apertures, and field behavior at high and low frequencies.



Modern Antenna Handbook

Constantine A. Balanis

9780470036341 • Cloth • 1712pp • \$195.00 • July 2008 • Wiley

Each chapter of this handbook has been authored by a leading expert and includes materials about current and future antenna-related technology. The topics covered include classical antenna configurations along with advanced topics and associated designs. Material related to antennas, such as metamaterials, is reflected in the selected topics. In addition to the antenna topics, seven chapters each relate to an advanced numerical/computational method targeted primarily for the analysis and design of antennas.



Grounding and Shielding

Circuits and Interference, 5th Edition

Ralph Morrison

9780470097724 • Cloth • 193pp • \$84.95 • March 2007
Wiley-IEEE Press

This work is a highly effective tool that connects the fundamentals of electromagnetic theory to the problems of interference in all types of electronic design. The book covers such diverse topics as power distribution in facilities, mixing of analog and digital circuitry, circuit board layout at high clock rates, and meeting radiation and susceptibility standards. It also features new material on transmission lines, radiation, and printed circuit design, and step-by-step instructions for building noise-free instrumentation systems.



Electromagnetic Shielding

Salvatore Celozzi, Rodolfo Araneo, Giampiero Lovat

9780470055366 • Cloth • 358pp • \$84.95 • April 2008
Wiley-IEEE Press

This reference provides a comprehensive survey of options for the reduction of the electromagnetic field levels in prescribed areas. After an introduction and an overview of available materials, it discusses figures of merit for shielding configurations, the shielding effectiveness of stratified media, numerical methods for shielding analyses, apertures in planar metal screens, enclosures, and cable shielding. The last three chapters discuss frequency-selective shielding, shielding design procedures, and uncommon ways of shielding—areas ripe for further research.

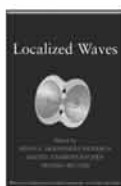


Analysis of Electromagnetic Fields and Waves The Method of Lines

Reinhold Pregla

9780470033609 • Cloth • 522pp • \$160.00 • May 2008 • Wiley

This book describes the general analysis principles for electromagnetic fields, discussing applications in microwave, millimeter wave and optical frequency regions, but also for static problems. Generalized transmission line equations have been formulated in arbitrary orthogonal co-ordinates. Based on these equations, numerically stable impedance/admittance transformation formulas are developed in the scheme of the method of lines (MoL). This book demonstrates a unique analysis principle that is also important and useful for other modelling algorithms.



Localized Waves

Hugo E. Hernández-Figueroa, Michel Zamboni-Rached, Erasmo Recami

9780470108857 • Cloth • 369pp • \$120.00 • January 2008 • Wiley

Localized Waves is the first book on this subject of great current research interest. It brings together the world's most productive researchers in the field to offer a well-balanced presentation of theory and experiments in this new and exciting subject. Composed of thirteen chapters, this dynamic volume presents a thorough review of the theoretical foundation and historical aspects of localized waves, explores the interconnections of the subject with other technologies and scientific areas, and more.



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Board members prepare to line up at the lunch buffet, including (from left) John Norgard of the University of Colorado – Colorado Springs, Henry Benitez of ElectroMagnetic Investigations, Takeo Yoshino of the University Electro Communications – Tokyo, Mark Montrose of Montrose Compliance Services, Francesca Maradei of the University of Rome “La Sapienza”, and Barry Wallen of ANDRO Computational Solutions.

CONFERENCE SERVICES

Barry Wallen, Vice-President for Conferences, presented his report. The Board approved EMCS Technical Co-Sponsorship of the Asia Pacific Microwave Conference (APMC) in Hong Kong December 16-19, 2008. On EMC 2007 Honolulu, HI 50th Anniversary Symposium, Chair Janet O’Neil reported since the last report in November that EMC 2007 treasurer Benoit Nadeau continues to work with IEEE CMS to sort out the final expenses for EMC 2007. There are numerous questions relating to actual expenses that came in much higher than budgeted, without clear indications from IEEE Conference Management Services on the purpose of the expenses and who was controlling them. Treasurer Benoit Nadeau reported preliminary numbers of: Income (near to final): \$944,930, Expenses (non-final): \$886,634. Mr. Wallen will prepare a detailed financial wrap-up report providing a line item review of the problems associated with the expenses incurred by the 2007 Symposium. This information will be pulled into the Symposium Manual as lessons learned and forwarded to future Symposium Chairs and Treasurers. Initial availability of this report is expected to be early July 2008. On EMC 2008 Detroit, MI, Chair Kimball Williams reported the 2008 Symposium Committee continues to meet via teleconference once each month. Room rates at the Symposium Headquarters hotel, Detroit Renaissance Marriott, are quoted at \$164 single or double occupancy per night, plus 15% tax. Regarding the technical program, 183 papers have been received, with 121 accepted. There are five Special Sessions, each with 5-6 papers. On workshops/tutorials, 24 of the 32 submitted were accepted. Bruce Archambeault advised the new paper review process is working very well. On exhibits, 185 booths have been sold to 119 exhibitors. On registration, this stated on line on March 5, with 26 people registering so far. On EMC 2009 Austin, TX Chair David Staggs reported a loan request of \$20K has been forwarded to the VP of Conference Services and the

Concentration Banking Account (CBA) has been established. The preliminary budget was completed and presented to the Board of Directors at the November 2006 BoD Meeting. The final version of the 2009 symposium budget will be presented to the BoD at the May 2008 meeting. The host hotel (Hilton) contract has been signed. The Hilton always charges \$9.95 per day for Internet in their hotels. The current plan is to use the large (3000 people) Hilton hotel ballroom for the Symposium Reception. The Austin Convention Center contract is signed and a \$1K deposit made. Next deposit is due on 8-15-08 of \$4K. The new contract management firm selected is Three Dimensions. The Call for Papers, Call for Workshops/Tutorials, Call for Experiments/Demonstrations and Call for Special/Invited Sessions are in process. As soon as the contract is finalized with Three Dimensions, work will start on Exhibitor Package preparation for distribution at the 2008 symposium in Detroit. On EMC 2010 Fort Lauderdale, FL Chair Fred Heather reports the EMC 2010 committee has a meeting planned for March 12, 2008. The committee is waiting for a decision from the EMC 2009 committee on a conference management services firm so that EMC 2010 may follow its lead. On EMC 2011 Long Beach, CA Chair Ray Adams reports the contract has been signed with Long Beach Convention Center. The contract has been signed with the Long Beach Hyatt hotel, and potential overflow hotel options are being reviewed. The EMC 2011 committee is waiting for a decision from the EMC 2009 committee on a conference management services firm so that they too may follow its lead. On EMC 2012 Pittsburgh, PA Chair Mike Oliver reports EMC 2012 has begun investigating Pittsburgh hotels and venues, and is working with Barry Wallen to lay out a strategy for conference management. Exhibitor Liaison Janet O’Neil noted she has contacted Eddie Pavlu of Elliott Labs about becoming more involved in the exhibitor activities at the Symposium. Mr. Pavlu attended the exhibitors breakfast at EMC 2007 and volunteered to help. Regarding regional conferences in Regions 1-7, Janet O’Neil reported that the following tabletop shows are scheduled for 2008: Clemson University on March 12, April 1 in Milwaukee, April 29 in Huntsville, May 8 in Detroit, May 13 in Chicago, and possibly June in Maryland. Her report identified the speakers at each event. The Clemson Automotive EMC focused program had multiple speakers, including Todd Hubing and Mark Steffka, co-chair for the EMC 2008 Technical Program. This event was held to promote EMC 2008 to the considerable automotive companies in the southeastern states as well as potentially start a new EMC chapter in the Greenville area. Approximately 70 people attended the event. The level of participating exhibitors was higher than expected. Unfortunately, expenses for this event were much higher than expected, as the event could not be held as originally planned in the Clemson University ICAR auditorium. The auditorium was not completed in time so tables and chairs had to be rented for the new location within the CU-ICAR and catering needed to be brought in. The estimated net surplus to the EMCS is \$8,000.

Regarding Region 8, Frank Sabath reported on the following EMC conferences:

2008		
Conference Location	Dates	EMC-S Approval
12th IEEE International Symposium on Consumer Electronics, Algrave, Portugal	April 14-16, 2008	The organizing committee has submitted an application for Technical Co-Sponsorship. Request referred to the TAC for recommendations
EMC Wroclaw, 19th International Wroclaw Symposium and Exhibition on EMC, Wroclaw, Poland	June 11-13, 2008	Previous conferences Co-Sponsored I have not see the application, but organizer shows technical co-sponsorship on web page by Polish EMC Chapter
EuroEM 2008, EuroElectromagnetics Conference Lausanne, Switzerland	July 21-25, 2008	The organizing committee has submitted an application for Technical Co-Sponsorship in August 2007. Previous conferences Co-Sponsored Request referred to the TAC for recommendations
EMC Europe 2008 Hamburg, Germany	September 8-12, 2008	Technical Co-Sponsorship approved; MOU signed The local organizing committee has invited EMCs TCs to organize sessions and workshops.
Symposium on EMC: Environmental and Safety Aspects in conjunction with SoftCOM 2008, Split, Croatia	September 25-27, 2008	The organizing committee has submitted an application for Technical Co-Sponsorship. Previous conferences were not Co-Sponsored. Request referred to the TAC for recommendations. Although this event takes place two weeks after EMC Europe 2008, I do not see a conflict in co-sponsoring both events. The co-sponsorship will support the Croatia EMC Chapter.
EMC UK, EMC Exhibition & Conference Newbury, UK	October 14-15, 2008	I have not see the application, but organizer shows technical co-sponsorship on web page.
2009		
Conference Location	Dates	EMC-S Approval
20th International Zurich Symposium on Electromagnetic Compatibility Zurich, Switzerland	January 12-16, 2009	Previous conferences Co-Sponsored. I have not see the application, but organizer show technical co-sponsorship on web page.
VIII International Symposium on Electromagnetic Compatibility and Electromagnetic Ecology St. Petersburg, Russia		Previous conferences Co-Sponsored. I have contacted the organizer to help with the application for technical c-sponsorship

Regarding Region 9, Janet O'Neil reported that there are preliminary plans for a tabletop show in 2008. Also, a few names have been proposed of two EMC members in the area to become the Region 9 liaison to the Board, including Roxana Saint-Nom who is the director of Electrical Engineering at the Technological Institute of Buenos Aires (ITBA), a private University. The ITBA also runs the Argentine Institute of RF and EMC; Roxana is one person short of establishing an EMC chapter in Buenos Aires, Argentina. Ms. O'Neil is investigating holding a tabletop show in Buenos Aires and in Sao Paulo in 2008. The Sao Paulo group has requested an IEEE event next year. It would be good to time these events together to capture both markets. Symposium Finance Chair Bob Hofmann next reported that revised spreadsheets have been sent out to the affected symposium Treasurers and Chairs. Site Selection Chair Darryl Ray reported that Pittsburgh, PA has been approved by the Board to host IEEE EMC 2012. He is working with the Denver EMC Chapter as a possible host for the 2013 Symposium. A possible problem is the Denver Convention Center will not book an event until three years out. One or more additional sites will be contacted to see if there is an interest in hosting EMC 2013. The Symposium Site Selection Application Form has been revised. The main changes involve streamlining and



Bob Goldblum (left) of Robar Industries lingered after lunch with fellow Board member Dick Ford of the Navy.

addressing conferences services and committee symposium planning experiences. Mr. Walen advised there was no report from Jim Blaha on Symposium Publicity. Regarding Global EMC Symposia, Chair Graham Kilshaw reports that, since October 2007, the Society has received eight new TCS applications from the following: Asia Pacific MTT EMC 2008, Malaysia; ISCE 2008, Portugal (Since Withdrawn); SoftCOM 2008, Croatia; Asia Pacific Microwave Conference, Hong Kong; Wireless Systems, CAC 2008, Sichuan, China; INCEMIC 2008, India; CEEM 2009, Xi'an China; and EMC Zurich 2009, Switzerland. The following conferences are still awaiting approval/denial of TCS sponsorship: All eight new conferences listed above, plus EUROEM 2008, Switzerland (submitted 6/18/07) and Antennas, Propagation, EMC in Bangkok (submitted 1/31/07). In closing his report, Mr. Wallen advised a Conference Group Web Page has been initiated. The list of web pages under development related to conferences is noted in his report.

TECHNICAL SERVICES

John Norgard, Vice President for Technical Services, presented his report. Regarding the Technical Activities Committee (TAC), Chair Bob Scully reported that 198 papers were submitted for EMC 2008, with 121 being accepted. The initial acceptance letters have been sent out. There will be 4-5 parallel sessions. Bruce Archambeault reported on the symposium technical guidance document. TAC representatives involved in this project included Bob Scully, Don Heirman, Derick Skouby and Mark Steffka, while many others provided input. The committee's goal is to develop a set of guidelines that will allow each year's symposium Technical Program Committee (TPC) to understand their roles and responsibilities. This will provide some consistency from year to year while allowing the local committees to impart their "local flavor" to the program. The report on this activity provided flow chart details on the technical paper review process, workshop/tutorial acceptance process, and special/invited session acceptance process. Regarding the Representative Advisory Committee (RAC), Chair Fred Heather presented information on a proposed membership expansion for RAC to include Government EMC/Spectrum Authorities from the US, Europe, Asia, South America and other countries. The committee would also like to outreach to additional professional organi-



EMC Society Assistant Treasurer John LaSalle of Northrop Grumman takes a business call during one of the breaks in the Board meeting.

zations in the UK, India, and France, especially, in addition to other countries. Dr. Norgard then reported on the activities of the Education and Student Activities Committee (ESAC). The current officers include Chair: Bob Nelson (r.m.nelson@ieee.org), Vice-Chair: Randy Jost (r.jost@ieee.org) and Secretary: Larry Cohen (lawrence.cohen@nrl.navy.mil). The subcommittee chairs include: NARTE: Jim Whalen (jjw@eng.buffalo.edu), Experiments Manual: Ed Wheeler (e.wheeler@ieee.org), Hardware/Software Demonstrations: Andy Drozd (a.l.drozd@ieee.org), Fundamentals Tutorial: Daryl Beetner (daryl@umr.edu), University Grant Committee: Tom Jerse

(jerset@citadel.edu), Student Paper Contest: Jim Whalen (jjw@eng.buffalo.edu) and Aziz Inan (ainan@up.edu), Student Design Contest: Harold Rudnick (harold.rudnick@ieee.org), Faculty Workshop: Ed Wheeler (e.wheeler@ieee.org). Continuing its long-standing tradition, the ESAC Fundamentals Tutorials committee intends to provide a day-long set of tutorials during the 2008 IEEE EMC Symposium. For the Fundamentals Tutorial, Daryl Beetner is planning a day-long set of tutorials (EMC Refresher Course) with proposed topics/speakers: PCB Design – Speaker contacted (awaiting confirmation), The Path of Least Resistance – Elya Joffe, Partial Inductance – Clayton Paul, and Automotive EMC – Todd Hubing. On the University Grant, Tom Jerse reports three grant requests have been received, including from Embry Riddle Aeronautical University (Florida), the University of Split (Croatia) and the University of Waterloo (Canada). Harold Rudnick reports that 22 requests for Student Design Kits were received. The completed kits are due April 30 with the announcement of the winner made on May 15. Jim Whalen and Aziz Inan reported all is going well with the Student Paper Contest. Additional referees were recruited this year. On the Faculty Workshop, Ed Wheeler noted the committee is working on creating an online archive of EMC learning resources to include educational material for use in the EMC community. The committee proposed holding an informal meeting during the Detroit symposium. Lastly, the committee is working on a proposed joint Standards/ESAC workshop in Detroit, which would address crafting EMC standards with the intent of acquainting members of the international EMC community.

Call for Papers

20th International Zurich Symposium on Electromagnetic Compatibility

EMC Zurich 2009, January 12–16, ETH Zurich, Switzerland



Proposals for workshops, tutorials, topical meetings and special sessions	April 25, 2008
Preliminary paper submissions (4 pages in PDF format only)	July 4, 2008
Notification of acceptance	August 8, 2008
Final paper submission	October 10, 2008

www.emc-zurich.ch





A "Barbershop Quartet" contest took place in Greenville the weekend of the Board of Directors meeting. This group was happy to demonstrate their talents for the Board.

MEMBER SERVICES REPORT

Dave Staggs, Vice President for Member Services presented his report. He introduced Bruce Archambeault who then presented the report on Awards. For the 2008 awards, he noted that the initial e-mail blast soliciting awards was sent out in early January with a second e-mail blast sent out in early March. A few nominations have already been received. The Awards Committee includes Colin Brench, Lee Hill, Bob Scully, and Dan Hoolihan. Dr. Archambeault presented information on a new special service to the EMC Society award. The Board approved his recommendation to create a new "Special Service to the



Board members (from left) Andy Drozd of ANDRO Computational Solutions and Francesca Maradei join Lee Hill of SILENT at the nearly completed construction site of the Clemson University International Center for Automotive Research (CU-ICAR).

EMC Society Award." Dr. Archambeault presented information on a new, one time award to the founders of the Wroclaw EMC Symposium since this will be the last year of the Symposium. The Board approved his recommendation to create a new special award for the "First EMC Symposium in Europe." This would be issued to the EMC Wroclaw Symposium committee. Next, Chapter Activities Chair Francesca Maradei reported that there are currently 67 chapters, of which 32 are in Regions 1-6, three in Region 7, 18 in Region 8, three in Region 9 and 11 in Region 10. New chapters include a joint AP/EMC/MTT chapter in Hyderabad, India and a joint AP/EMC chapter in

Letter from the Editor *continued from page 3*

read about our illustrious past and learn some interesting tidbits. For example, note the reference to Todd Hubing's witty EMC engineer prose. We've republished this on page 10 so you too can share this prose with a colleague next time you're at the water cooler. The humorous War Story contributed by Founder Tony Zimbalatti on page 37 should not be missed. Likewise, the inclusion of the fourth most referenced *IEEE Transactions on EMC* paper in the 50-year history of the EMC Society is worthy of re-reading or discovering anew if you have not read this. We are honored to have a contribution by Dr. Paul in this issue. Read the paper on page 29. Also, Dan's daughter was recently married. We've included a photo of the wedding party at the end of this letter.

Our new EMC Society President, Elya Joffe, begins his President's Message on page 4 by calling your attention to "The Buzz Word – Globalization." In this issue alone, you'll find many examples of the EMC Society's connection with global conferences (see the Calendar on page 85), including its presence at EMC Europe 2008, in particular, where a Region 8 Chapter Retreat will take place on September 10. You'll also find contributions from our international EMC Chapters in Chapter Chatter, starting on page 10. Note the activity in South America, Europe and Asia in addition to the considerable US based Chapter activity.

Energetic Board member Bruce Archambeault not only has contributed his regular Design Tips article, but a book he's written is reviewed on page 24, AND he's also prepared a new column entitled "Completed Careers" to honor recently deceased Board members. Page 49 provides details about this new column and the Board's goal to keep the membership informed of the passing of respected members of the EMC

Society. It's one small step towards enriching our community by paying tribute to our deceased members.

We are sorry to relay the news of the passing of John Osburn, a long time contributor to the EMC Society. John chaired one of the most financially successful IEEE EMC Symposiums of all time in Austin, Texas in 1997 and was most recently working on revitalizing the long dormant Fort Worth, Texas EMC Chapter. We have a tribute to John on page 48. It's fitting to end this column with a memory of John, as there truly was never a dull moment when John was around.

EMC



PHOTO BY LISA OIEN

Newsletter Associate Editor Dan Hoolihan, of Hoolihan EMC Consulting, poses with his wife Rosemary, daughter Bridget, and son-in-law Tim Budig at the couple's wedding. Tim and Bridget were the winners of a wedding contest at the Ordway Center for the Performing Arts in St. Paul, Minnesota and were married March 22, 2008.



Todd Hubing and Clemson University hosted a reception for the Board following its meeting in Greenville. Board members enjoying the dinner buffet included (from left) Elya Joffe, Mark Montrose, and Don and Marilyn Sweeney of DLS Electronic Systems.



Dan Hoolihan (left) enjoyed visiting with the CU-ICAR's Professor Stephen Hung during the reception held at the new facility.

Argentina. The Rock River Valley EMC chapter held its inauguration on November 15, 2007. Regarding chapters under construction, John Osburn initiated the reformation of the Fort-Worth EMC Chapter, which was dissolved in 1965. Colin Brench will assist with this effort. The number of EMC-S members in the Ft. Worth Section is 21. While they have enough members for this chapter, they do not have a Chapter Chair. Todd Robinson and Chet Summers continue efforts in the formation of a new chapter in the Central Valley of Cali-

fornia (San Joaquin Valley). Randy Jost has expressed interest to form the Salt Lake Chapter. There are currently six EMC-S members in the Utah Section, and they are considering the possibility to form a joint AP-MTT Chapter. Contacts have been established with the members of the Dayton IEEE Section. There are currently 10 EMC-S members in the Dayton Section, and they are considering the possibility to form a joint EMC-PSE Chapter. Work continues in forming a Chapter in Vancouver/British Columbia, Canada. Approval is pending on the



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Lausanne, Switzerland



Michael Messman of the CU-ICAR showed the Board members one of many automotive test chambers at the new facility. Many tests can be performed, including shock and vibration, acoustic, EMC, and more!

formation of an IEEE EMC Chapter in Mexico. In Asia, new chapter activity is underway in Thailand, Bangalore and Shanghai. The Angel Process and assignment list was reviewed. Ms. Maradei noted one \$600 Angel Fund request was made since the last Board meeting. This came from the UK and Republic of Ireland Chapter. Planning continues for a 2008 Chapter Chair Retreat in Detroit, in conjunction with the 2008 IEEE International Symposium on EMC. The format will be a training session and luncheon. Ms. Maradei is also working with Frank Sabath to hold a Region 8 Chapter Retreat in Hamburg during EMC Europe 2008. It is possible a Region 10 retreat may also be scheduled in Singapore during the May Asia-Pacific EMC Conference. Dave Staggs noted that Todd Hubing has agreed to replace Heyno Garbe as chair of the Fellow Nomination Support Committee. Recent work involved assisting a candidate with his nomination. Dave Staggs informed the Board that Bill Duff advised this would be his last year as Chair of the Fellow Evaluation Committee. Dr. Duff is seeking a replacement now to provide a smooth transition for 2008. The committee members include Ernie Freeman, Hugh Denny, Gerry Capraro and Art Wall. They will evaluate candidates for 2009 from March 15-June 15, 2008. Next, Membership Chair Colin Brench reported that there were 56 new senior members in 2007. His report included a pie chart showing the breakdown by membership category of the 4,241 total members of the EMC-S. His committee is addressing the GOLD program. A search of the SAMIEEE database shows 400+ GOLD members; only a few of these members have indicated an interest in EMC. The committee is also investigating ways to increase membership and simplify the process and method of signing up new members. A discussion was held on a possible EMC-S workshop membership drive initiative. This was a pilot program initiated by the Oregon and SW Washington EMC Chapter. Henry Benitez, who was involved in this workshop, noted that the pricing of member versus non-member registration was a differential that provided IEEE and EMC-S membership in the non-member fee (example, \$100 member/\$300 nonmember). The Board discussed various ways of implementing this program, especially in Region 9 where membership growth is slowly increasing and new chapters have been recently formed. Mr. Staggs noted



EMC Society Vice-President for Member Services, Dave Staggs, and his wife Barbara relaxed following the private tour of the CU-ICAR.

that Frank Sabath has agreed to replace Elya Joffe as Region 8 Membership Coordinator. Mr. Sabath would like to hold a Region 8 Chapter Retreat in conjunction with EMC Europe 2008 in Hamburg. He is organizing having the EMC-S membership booth at this conference (the exhibit space is complimentary) to recruit new members. His initial work on this committee will be to learn the BMS software tool that replaces SAMIEEE. Mr. Staggs relayed the report of Maria Alejandra Mora Riveros who advised that there are currently 116 EMC-S members in Region 9 (both student and professional). The newest chapter in Region 9 is the Argentina joint AP/EMC chapter. A Venezuela chapter is under construction. Her report included a bar chart of members in Region 9. The highest membership numbers are located in the South Brazil, Mexico and Columbia Sections. Professor Takeo Yoshino then presented a detailed report on Region 10 membership development. This reviewed his activity with the new chapter in India, status of efforts with the Australia chapter, and the Thailand chapter (he has been working with Dr. Werachet Khan-ngern – the Chapter Chair candidate). Professor Yoshino promoted a first year free membership in the EMC Society to all IEEE members in Region 10 via sign ups at the EMC-S membership booth located at various conferences in Region 10. He reviewed the nine existing chapters in Region 10, including Japan, Sendai, Seoul, Beijing, Nanjing, Malaysia, Singapore, Australia (Victoria), Hong Kong, and Taipei/Taiwan. The report included updated contact information for the chairs of each of these chapters. Professor Yoshino concluded his report with an update on the 3rd Pan Pacific EMC Joint Meeting (PPEMC '08), May 15-16, 2008 in Tokyo, Japan and a discussion of copyright issues related CD-ROM publication of technical papers by IEEE and the IEICE. He noted that Professor Jun Fan of the Missouri Institute of Science and Technology (MST), and EMC-S DL, would be a distinguished lecturer at the PPEMC '08 conference. Mr. Staggs then provided highlights of Jim Drewniak's report as the Distinguished Lecturer (DL) Program Committee Chair. Professor Drewniak provided information on each DL, their speaking term and their assigned IEEE Regions. Jun Fan has agreed to manage the Video DL Program working with Dr. Drewniak. Dr. Fan has already contacted the MST staff and all is ready for the DLs to



Board member Todd Hubing is shown at his desk during a well-deserved break in the Board activities at the CU-ICAR. Dr. Hubing is the Michelin Professor of Vehicular Electronics at Clemson University and played host to the Board during its visit to Greenville.



The EMC Society Board of Directors and guests paused for a group photo prior to boarding a bus for travel back to downtown Greenville from the Clemson University ICAR.

record their sessions or have live presentations to the chapters. The trial period for this program is 2008. Mr. Staggs advised that Ken Wyatt is the EMC-S photographer. He retired from Agilent on Jan 31, 2008 and continues to support the EMC Newsletter by providing photos and creating cover images. He may be contacted at: ken@emc-seminars.com. Past President Andy Drozd, Nominations Chair, presented the names for the BoD nominations committee. This includes two Board members and two non-Board members. The Board approved the nominations committee slate of Bob Scully, Don Sweeney, Frank Sabath and Gerald Capraro. Regarding the Constitution and Bylaws, Mr. Drozd noted that there is no current activity since the "must haves" work was approved under the consent agenda. The committee will look at future work on the financial policies. Mr. Staggs noted that Bob Hofmann and his Financial Assistance Program (FAP) Committee have documented and completed the process/procedure, application form and policy. This information is posted to the EMC-S web site under "Financial Policy" and on the EMC 2008 symposium website under "Registration." Bruce Archambeault, Bob Davis, Andy Drozd, Don Heirman, and Don Sweeney make up the new "Completed Careers" committee tasked to develop and implement a plan to honor EMC-S members who have made contributions to the Society

and have recently passed away. Ideas include having a "completed careers" section in the EMC Newsletter, posters at the yearly awards luncheon with photos and names of the deceased, having a moment of silence during the President's address at the luncheon, and sending a letter to the family of the deceased from the EMC-S President. Dr. Archambeault will send an e-mail to the Chapter Chairs informing them about this new committee's work and will prepare a short article for the Spring 2008 EMC Newsletter about the "Completed Careers" new section of the Newsletter. Mr. Staggs concluded his report noting that Fred Heather did not submit a report on the Survey Committee and Randy Jost did not submit a report on "Sister Societies." The PACE Committee is inactive and a chair is sought. Anyone interested in filling this position should contact Mr. Staggs (d.staggs@ieee.org)

LONG RANGE PLANNING

Elya Joffe presented an outline of the brainstorming session scheduled for Saturday, March 15. Breakout groups will include:

- New Technology Directions/Standards
- Membership
- Communications
- Conferences

He asked that each group address the main topics of Globalization and Leadership Development across all discussion areas. He presented the Brainstorming

Session Schedule, which will go from 9:00 am to noon.

UNFINISHED BUSINESS

The following items were discussed under "Unfinished Business":

IT Planning Committee: Fred Heather volunteered to chair the IT Planning Committee and have a plan for review at the May Board meeting. Barry Wallen and Ghery Pettit volunteered to be members of this committee. This work addresses the Board's many IT needs including website maintenance for the BoD and the Standards Committees, Webinars, the FTP site, video storage (DL talks, etc.), reliance on the IEEE server, etc.

TAB Roster: President Joffe reviewed the list of open positions and solicited anyone interested to contact him.

iNARTE: Kimball Williams advised that they would like to create new questions that are tailored to specific disciplines. For example, they would like to add automotive EMC questions to the iNARTE exam. iNARTE is also looking at having renewal exams or the requirement of CEUs in order for members to retain their certification.

Officer and BoD Job Descriptions:

Andy Drozd noted that he has updated this document as much as he can. He intends to send this to all Board members for review and comment. Mr.

Drozdz volunteered to take on this work and transition from Mr. Williams.

Disposition of Applied MicroImage CDs: Andy Drozd noted that Applied Micro Image, the company who stores the “40 Years for \$40” CDs, has contacted him. The company would like to distribute all CDs from their storage facility and terminate their arrangement with the EMC-S. The boxes will be shipped to the VPs to distribute as they’d like. Mr. Joffe asked that one or two boxes be sent to the INCEMIC conference in India for distribution.

NEW BUSINESS

The following items were discussed under “New Business”:

Future Board Meeting Dates/Discussion: President Joffe presented the Board meeting schedule for 2008 as follows:

- May 30-31, 2008 – Salt Lake City, UT
- August 17 and 21, 2008 – Detroit, MI (Symposium)
- November 19-21, 2008 – Long Beach, CA

He proposed the 2009 Meeting Schedule, as follows, and solicited input from the Board members before these dates/locations are confirmed:

- March, 2009 – Mexico City, Mexico
- May, 2009 – Philadelphia or Pittsburgh, PA (?)
- August, 2009 – Austin (Symposium)
- November, 2009 – San Francisco, San Jose or Santa Clara, CA or Phoenix, AZ (?)

Technology Management Council: Fred Heather gave a presentation on the new Technology Management Council. The Board decided not to join this council until more information on the benefits of joining could be provided and TC-1 was contacted to confirm their position for joining.

Biometrics Council: Fred Heather presented information on the Biometrics Council. The Board agreed with Mr. Heather’s recommendation that the EMC-S not join this council since the scope of work and area of interest are not closely aligned with the EMC-S.

\$10K High School EMC Grant: Andy Drozd presented a report on the need to expand the EMC-S grant program from universities and colleges to high school grades. The Board approved Mr. Drozd’s recommendation that the EMC-S implement a pilot program through ESAC valued up to \$10K total to award at least one (1) EMC grant up to an amount of \$10K to at least one (1) secondary school local to any of our EMC chapters.

IEEE 125th Anniversary: Don Heirman announced that the IEEE would be celebrating its 125th Anniversary in 2009. The



On Saturday morning, March 15, the Board held a half-day Long Range Planning session to prioritize its goals for the year and initiate implementation of the goals.

History Committee of the IEEE is actively working to commemorate this event. Mr. Heirman recommended the EMC-S nominate a candidate for its Milestone Program.

Terms of Office: Don Heirman talked about the grey areas of terms of office for IEEE standing committees. For example, very few people know when their term of office starts and stops. This was discussed during the Standards Committee meetings in Greenville. He reviewed the bylaws and what they say about standing committees and terms of office. He suggested that the bylaws be reviewed. Mr. Joffe requested that each VP send him the list of standing committees under each VP office. Then, the terms of office could be reviewed. Mr. Joffe asked that an ad hoc committee be formed to address this. Don Heirman volunteered to chair this committee. John Norgard, Barry Wallen, and Andy Drozd volunteered to be members of this committee.

ACTION ITEM REVIEW

Secretary O’Neil reviewed the action items discussed during the meeting. An updated, consolidated list of action items will be sent to the Board following the meeting.

ADJOURNMENT

There being no further business, the meeting adjourned at 4:45 pm.

*Submitted by:
Janet O’Neil*

Secretary, EMC Society Board of Directors