

**APPROVED MINUTES**  
**OF THE IEEE EMC SOCIETY**  
**BOARD OF DIRECTORS MEETING**

**August 7, 2005**  
**Sheraton Hotel**  
**Chicago, Illinois**

**MEMBERS PRESENT (23)**

B. Archambeault  
N. Carter  
A. Drozd  
H. Garbe  
F. Heather  
D. Heirman  
L. Hill  
D. Hoolihan  
T. Hubing  
E. Joffe  
W. Kesselman  
F. Maradei  
M. Montrose  
J. Norgard  
J. O'Neil  
S. Nitta  
G. Pettit  
A. Podgorski  
R. Scully  
D. Staggs  
D. Sweeney  
R. Wallen  
K. Williams

**MEMBERS ABSENT (2)**

C. Brench  
M. Hatfield

**GUESTS (3)**  
R. Goldblum  
W. McGinnis  
F. Sabath

## **1.0 THE PRESIDENT'S OPENING REMARKS**

President Williams called the meeting to order at 10:00 am. A round of introductions was made. President Williams presented the agenda. (See Agenda dated August 7, 2005.) The meeting agenda was presented and approved. The consent agenda (including the Treasurer's report and Minutes of the May 24 Board meeting) was approved as presented.

## **2.0 PRESIDENT-ELECT REPORT**

Andy Drozd spoke about comments received back from the IEEE as a result of the Five-Year EMC Society Review. (See Society Review.) He noted that the size of our Board compared to the EMC-S membership level was higher than other societies. The Board needs to consider this for future planning. New ideas presented at the review included suggestions for increasing membership and having two symposiums yearly, among other ideas. He reviewed the meeting schedule for 2006 as follows:

March 15-17, 2006 in Piscataway, NJ

May 16-18, 2006 in Hannover, Germany

August 13 and 16, 2006 in Portland, OR

November 9-11, 2006 in New Orleans, LA (proposed location)

## **3.0 TREASURER'S REPORT**

Treasurer Warren Kesselman briefly summarized his report. (See Treasurer's Report.) Regarding 2004 Operations, the final audit report has not been issued. No significant change is anticipated to the information contained in his May report (\$518,000 surplus). Regarding the 2005 Operations Forecast, the recent second quarter forecast review with IEEE projected a potential year-end operations deficit of -\$97,600. This is higher than the deficit forecast in the May report (-\$58,600). The reason for the difference is the increase in the Transactions page budget to reduce paper backlog and the Transactions Digitization Project. The 2005 approved Periodicals budget net (which includes Transactions, Membership Fees, and Periodical-related accounts) was \$261,000 and the Forecast net is \$216,800. There may be some small additional income from the ASPP, but that calculation cannot be estimated at this time (it's a year-end adjustment). Also, both the forecast and the approved operating budget **do not** include Market Fluctuation. The Market (+ or -) is only reflected after the close of operations on 31 December. (If 2005's market experience is a repeat of 2004's positive return, the projected 2005 deficit could be fully covered.) A forecast summary table is contained in Enclosure 1 of the Treasurer's report. Regarding 2006 Budget Development, the second-pass budget received from IEEE projected a -\$34,700 net deficit. The first-pass budget submitted to IEEE contained a net deficit of -\$17,300. About \$10,000 of the difference between the two budget nets is in the Meetings/Conferences Cost Center and about \$7,000 is in the Transactions Cost Center. (See summary in Enclosure 2 of the Treasurer's report.)

## **4.0 SECRETARY'S REPORT**

Secretary O'Neil noted that the minutes of the May 24, 2005 meeting in Tucson, Arizona were previously approved as part of the consent agenda.

## **5.0 COMMUNICATION SERVICES**

Ghery Pettit, Vice-President for Communication Services, presented his report. (See VP Communications report.) He summarized the activities involving the Newsletter and the Transactions.

### **NEWSLETTER**

Janet O'Neil, Newsletter Editor, advised that the Summer issue is 60 pages and is still under production. It should go to the printer no later than August 15. The Summer issue features an article by Dan Hoolihan about the Society's earliest symposia. The EMC-S anniversary logo is shown on the cover and references this article. There are two practical papers in this issue. The first is entitled "The Revised EMC Directive Versus the Current EMC Directive," by Frédéric Broydé and Evelyne Clavelier. In this paper, the authors have summarized the differences between the old and new EMC directives and emphasized how this might change the way EMC is handled. The second is entitled, "Ageing of Shielding Joints, Shielding Performance, and Corrosion: Part 1 – Measurement Methods" by Lena Sjögren and Mats Bäckström. This work was first presented at EMC Zurich 2005 and generated considerable interest. Bill and Merri Jo Gamble are featured in the Personality Profile column. Frank Sabath joined our Newsletter Staff as an additional Associate Editor for the Personality Profile. The EMCABS, Chapter Chatter, Board of Directors Activities, the Calendar section, and the President's Message are also included. The Standards section features an article about the recent CISPR meetings in Puerto Rico. The EMC-S bylaws change notice is also included as requested at the May Board meeting as well as the EMC-S Financial Summary provided by Warren Kesselman.

### **TRANSACTIONS ON EMC**

Mr. Pettit reviewed the report provided by Flavio Canavero, Transactions on EMC Editor in Chief. Regarding submitted papers, as of today, 124 new manuscripts have been submitted in 2005. This number exceeds the submission rate of 2003 and 2004. By the end of 2005, one can easily expect 200+ papers will have been submitted, in line with previous years submissions as shown below:

**Number of New Submissions of Regular and Short Papers**

Year	2000	2001	2002	2003	2004	2005 (as of Jul 31)
Number of manuscripts	106	110	130	160	187	124
Variation w/ previous year		+3.8%	+18%	+23%	+17%	

Regarding past Transactions issues, the February and May 2005 issues were on time. The August 2005 issue is under preparation, and should be available by the end of the month. Regarding the page count, during the June TAB Society Review meetings, a motion was approved encouraging Societies/Councils to utilize extra money (expected to come from 2005 strong sales of the IEL package) to address the backlog issues on publications by appropriately increasing the pages

published this year. Normally, this money is distributed to periodicals at the end of the year, i.e., too late to utilize it. This year, the decision was anticipated, and the EMC-S could take advantage of this opportunity to eliminate the backlog of 50+ papers. In July, Professor Canavero received an authorization from the EMC-S President to use up to 1090 pages in 2005. This decision supersedes the previously approved budget of 750 pages for 2005. A summary of the printed pages over the years, and in 2005 follows:

**Page Count Over the Years**

Year	1999	2000	2001	2002	2003	2004
No. of printed pages	528	508	716	612	680	704

**Estimated Page Count for 2005**

Issue	Feb	May	Aug	Nov
No. of printed pages	212	200	270 (estimated)	400 (estimated, including final index)

In planning the page budget for future years, considering that the large backlog the EMC Transactions suffered in these last years will be absorbed by the end of 2005, Professor Canavero believes it is a good time to plan for the page budget for the years to come.

He offered the following rationale for the page budget estimation:

- \* The number of submitted papers is now stable over the years, around 200 per year
- \* The acceptance rate is another stable parameter, whose value is 50% of the submissions
- \* The average number of pages per paper is 8, based on the published issues of the last years
- \* The partial count of pages needed to accommodate the regular papers of one year is 800
- \* It is important to consider again having a special issue every year from 2006 on, in order to continue the tradition of this journal; he proposes to allocate a fixed number of pages – 100 per year - (in the past, this was not implemented due to difficulties managing the page budget)
- \* 0.5% of the total page count must be reserved for cover pages, announcements, letters of EIC, list of reviewers, and indexes

Thus, the grand total for the page count is 950 pages/year.

Regarding Rapid Posting, this procedure, for which there is no additional cost to implement, works by processing one article at a time. All accepted papers have been sent by now to the Publications Department. They have already started their processing and are due to post each article to Xplore within 6 weeks. Papers are then printed in regular issues, according to a conventional waiting list based on the acceptance date. Professor Canavero activated this procedure on April 14<sup>th</sup>, 2005, under the pressure of a growing backlog; however, even if the backlog will not be an issue in the future, it remains a great advantage for the authors, and for the technical community to have the papers available on the web well ahead of being printed.

## WEB

Mr. Pettit noted that Elya Joffe is the webmaster. No report was received.

## IEEE PRESS

Mr. Pettit reported for Ray Perez. His report from the IEEE Press shows an updated status on the royalties. From January-December 2004, the royalties paid from EMC-S sponsored books total \$2,880.75. There has been no activity this past year on the proposal received for a new book, Eli Recht (Israel): *Electro-Optic Systems*. Books in progress include Elya Joffe/Kai Sang Lock (Israel/Singapore): *The Grounds for Grounding - Grounding from Circuits to Systems*. The book is being written. Five Chapters of the book have been received and already independently reviewed. Feedback has been sent to the authors. The balance of the Chapters should be received in 2005-2006, and reviewed in 2006. There are no books in production. Mr. Perez noted that his activity as the EMC-S IEEE Press/Wiley liaison has started again in May. A “call for authors” has been launched through the EMC-S TC-chairs. He initiated a personal request to obtain help from the TC-chairs to identify prospective authors among their members. The summer season has seen the realization of many months of productive work on behalf of the IEEE Press. Last month a blue-ribbon committee of IEEE volunteers recommended a three-year plan for strategic development of the IEEE Press. In a report accepted by the IEEE Publication Services and Products Board, the committee recommended that IEEE Press renew its co-publishing agreement with John Wiley & Sons. The committee’s report means that the IEEE will support an acquisitions program that builds on the success of IEEE Press’s strongest books series and emphasizes development of professional books that provide readers with an introduction to new technologies. They will seek to expand the network of IEEE volunteers who support the IEEE Press, and communicate to prospective authors that they are actively seeking proposals for new books. Everyone can support this effort by encouraging authors to visit the IEEE Press web site at <http://www.ieee.org/press>, or to send an inquiry to [ieeepress@ieee.org](mailto:ieeepress@ieee.org). IEEE Press Editor-in-Chief Mohamed El-Hawary plans to convene a September meeting of the IEEE Press Board to mobilize the volunteer community to support and implement the strategic plan.

## PUBLIC RELATIONS

There was no update since the May meeting to report.

## 6.0 STANDARDS SERVICES

Don Heirman, Vice-President for Standards, presented his report. (See VP Standards Services 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 position is vacant and a replacement is being sought, the SACCom chair Elya Joffe is resigning and he is looking for a replacement, and SDCom continues to be chaired by Stephen Berger.

Mr. Heirman reviewed the Standards Committee activity for the symposium week and will report on this in more detail at the Thursday Board meeting. Note many working groups will be meeting during the symposium week as well. He emphasized that the committees need additional volunteers to help on Standards activity. Several officer positions need to be filled. The committee is still considering that SETCom activity be moved to the Education Committee. For more information on standards, visit <http://standards.ieee.org/resources/glance.html>

## **7.0 MEMBER SERVICES REPORT**

Elya Joffe presented the report on Membership Service. (See VP Member Services Report.)

### **AWARDS**

Bruce Archambeault gave a report on the EMC-S Awards. A “Special Recognition Award” will be given this year to recognize the 25th anniversary of the Japan EMC Chapter, founded in 1980 as the first Chapter established outside the US. During the awards ceremony, the order of awards presented will be changed starting with the “major awards” being given first, followed by “other awards.” There will be a door prize raffle to attract attendees to remain throughout the entire ceremony. He will document the procedure and responsibilities before the next Board meeting for institutionalizing the process. Mr. Archambeault will hold a meeting on how to improve the Awards ceremony during the symposium week.

### **MEMBERSHIP**

As noted in Mr. Joffe’s report, two exhibit spaces (800 and 801) have been reserved for the EMC-S Membership booth and associated tables and material for EMC 2005. Volunteers from the local Chapter will be requested to run the booth. There are 4,075 active EMC-S members currently as of June 2005. The net is down 1.5% compared to about the same time in 2004. The membership breakout shows the following number of members: Higher Grade: 3,863 (-0.9%), Students: 208 (-10.3%), and Affiliates: 4 (N.C.). The SAMIEEE membership database shows that there are 4,091 active members. Total IEEE membership as of June 2004 is 337,333 (+0.9% over 2004 numbers). Student and Higher Grade membership increased in all non-US regions. Significant increases seen in Regions 8, 9, and 10 were offset by decreases in US regions and Canada. 35 Senior Members have been processed this year.

### **DISTINGUISHED LECTURER (DL) PROGRAM**

The program was very active in 2005. Six talks have been held to date with 139 attendees. Seven additional presentations are currently pending approval. An average of \$2,144.96 was spent per talk. The average cost per attendee is \$15.43. The DL policy revisions have been posted to the EMC-S web site and are now consistent with the revised policy in the EMC-S Handbook and Chapter guide.

### **CHAPTER ACTIVITIES**

Elya Joffe reported that he would attend the inaugural meeting of the Croatia Chapter scheduled for September 15-16, 2005. The Poland Chapter held their inauguration meeting on June 29, 2005, which Mr. Joffe attended. An article was submitted to “Chapter Chatter” introducing these new Chapters and their chairs. Australia is a new Chapter “Under Construction.” Other new Chapter

activity is underway in Sri Lanka, Bulgaria, Greece, Thailand, and Algeria. Regarding the Haislmaier Angel Fund, a \$500 request from the newly formed Croatian IEEE EMC Chapter was received to cover venue costs and logistics expenses associated with the inauguration meeting of September 15-16, 2005. The request was forwarded via the EMC-S Treasurer to IEEE for processing. Regarding future Chapter Chair Retreats, plans are underway for a Region 10 Chapter Retreat in conjunction with the EMC Zurich Singapore 2006 Symposium. This follows the success of the first Region 8 Chapter Retreat in Magdeburg, during EuroEM 2004 and is open to officers (or their representatives) of all IEEE EMC Chapters, at no cost to the EMC Society. A preliminary announcement will be sent out by the end of August 2005. A proposal has been made for a second Region 8 Chapter Retreat in Barcelona, Spain, hosted by the (relatively young) Spain IEEE EMC Chapter on September 11, 2006 in conjunction with the EMC Europe 2006 Symposium, again at no cost to the EMC-S. Mr. Joffe recommends initiating similar retreats in Regions 1-7 as well.

## FELLOW SEARCH

Heyno Garbe reported that a list of 6-7 potential Fellow candidates has been forwarded to him. He will initiate the nomination process for the candidates and contact them to obtain their curricula vitae. He will identify potential nominators who will prepare the application forms and contact them. In parallel, he plans to form an international Fellow Search Committee, from members from around the globe within the EMC-S. Volunteers are welcome. The Fellow Evaluation Committee consists of five EMC Fellows, Bill Duff is Chairman, and members are representatives from industry (Bill Duff, consultant and Ernie Freeman, SFA), the government (Art Wall, recently retired from the FCC), a research institute (Hugh Denny, Georgia Tech Research Institute), and academia (Jose Perini, Syracuse University). There are five well-qualified candidates who were evaluated by the committee this year. Committee members did not serve as a reference for any of the candidates. The evaluations were submitted to IEEE prior to the June 15, 2005 deadline. Evaluations were confirmed to have been received by IEEE. The committee hopes to have three candidates elected to the Fellow Grade.

## NOMINATIONS AND BYLAWS

Todd Hubing, Nominations Chair, noted that there were nine nominees for the IEEE BOD this year, including Bruce Archambeault, Henry Benitez, Richard Ford, Heyno Garbe, Dan Hoolihan, John LaSalle, Elya Joffe, Ghery Pettit, and Todd Robinson. The schedule established for the EMC Society Board of Directors Election follows: To Printer: 22 July 2005, Mail Date: 15 August 2005, Election Due Date: 26 September 2005, Announcement of Results: by 3 October 2005.

## SURVEY

Fred Heather noted that two surveys would be distributed at the Chicago symposium; one to exhibitors and one to attendees. The results will be shared at the November Board meeting. Fred is deriving the “lessons learned” from the previous symposium and revising format and automated input methods to streamline data collections. 256 mugs were ordered and delivered to Chicago. These will be given to those who return a completed survey. Special mugs may be considered for 2007. Mr. Heather would like to have the survey results posted on the web for public access by members. Regarding the IEEE conducted Five-Year Society Survey, the Survey was launched several weeks ago and is under way. Currently there is a 15% online return.

## **PHOTOGRAPHY**

Ken Wyatt is the EMC-S photographer. He will be present during the symposium week taking photos of various activities for preparation of the Fall 2005 issue of the EMC Newsletter.

## **PACE**

No report was received from Bill McGinnis.

## **REGION 8 REPORT**

The VI Symposium on EMC and Electromagnetic Ecology, in St. Petersburg, Russia, took place 21-24 June 2005. There was a 150% growth in attendance from 170 in 2005 versus 120 in 2003. The number of foreign members was double that of the last time. The official language was English, for the first time. Mr. Joffe attended and staffed the membership booth. He distributed much IEEE and EMC-S material. He noted that there was interest in membership, but credit card registration does not work in Russia yet. There was also interest in our Standards activities, and several members asked for the reports of the SACCom. EMC-S may also get a representative from GOST (their standards organization, which is not 100% harmonized with IEC/CISPR). A professional book publisher expressed interest in EMC books published by IEEE Press, and would like to explore the possibility to translate them into Russian and publish them with IEEE Press's agreement and contract. On the Transactions, the same publisher presented their local EMC transactions, and expressed interest in cooperating with the EMC-S in publishing papers in both Transactions, in both languages, English and Russian. Discussions began on the formation of a new Chapter in Hungary. Regarding Region 8 Membership Development, planned EMC-S co-sponsored symposia and membership development activities includes EMC Wroclaw 2006 in June, and EMC Europe 2006 in September, Barcelona. Mr. Joffe will attend these conferences and represent the EMC-S with the membership booth.

## **REGION 9 REPORT**

Mr. Joffe notes that the present focus is on establishing a Mexico Chapter with Dr. Valeri Ivanovich Kontorovitch Mazover and Dr. Roberto Linares (anticipated Chapter Chair) leading the process to get the required number of signatures for the petition form. Activity has been shown in Argentina. In Mexico and other Sections, only a joint Chapter can be formed as they have less than the necessary 12 members to form a Chapter independently. If developments are favorable, and sufficient progress is made, Mr. Joffe is considering traveling to Mexico in the hope that this may help in finalizing the formation of a Chapter in Mexico.

## **REGION 10 REPORT**

Regarding the Australia Chapter formation, petition signatures are in process. 10 names from the Victorian Section and six names from other states have been received, but the local IEEE administrator is reluctant to agree to an inter-section Chapter. Attempts will be made to recruit two more members from the local section. Failing that, a joint Chapter may be formed. Regarding the Thailand Chapter, the petition is still short two signatures. Regarding Chapter formations in India, difficulties remain in establishing a "central Chapter" due to delicate "territorial" issues. Planned

symposia and membership development activities include EMC Asia, Taipei, in December 2005 and EMC Zurich in Singapore, in February 2006.

## TRAVEL ASSISTANCE SUPPORT PROGRAM

Mr. Joffe reported that no progress has been made to date. Activity will be initiated after the August Board meeting, in preparation for the 2006 Symposium.

## MEMBERSHIP DEVELOPMENT TASK FORCE

Mr. Joffe noted that meetings would be held in conjunction with the quarterly Board meetings. The main goal and proposed scope and content are to consider the current situation of membership development, brainstorm on membership development initiatives, and propose to the VP for Member Services and to the Board possible strategies and initiatives which may help in membership development. The basis for discussion is the previously developed "Membership Initiatives List" of membership items in the Long Range Planning Committee material along with IEEE developed material. The first meeting was held yesterday outlining a road map for the EMC proactive approach for membership development. Additional meetings are planned in conjunction with the Board meetings. The primary topics for consideration are: Why are we losing members? Why are members not renewing? What are our members seeking? Or, why would anyone want to be an IEEE AND EMC-S Member (a key question), Is society cost an issue? What services should we be providing? Publications? Conferences? Educational? What is our relationship with Industry/Academia? How do we conduct student outreach with respect to membership? How can we retain and increase membership?

## 8.0 TECHNICAL SERVICES

John Norgard, Vice President for Technical Services, presented his report. (See VP Technical Services Report.)

### TECHNICAL ACTIVITIES COMMITTEE (TAC)

Mr. Norgard advised that the Chair of the Technical Advisory Committee (TAC) is Bill Strauss. Vice-Chair is Arto Chubukjian, and Secretary is Robert Scully. The committee has been very active the past few months getting ready for the Chicago Symposium. An updated report will be presented at the Thursday evening Board meeting.

### REPRESENTATIVE ADVISORY COMMITTEE (RAC)

RAC Chair Fred Heather presented his report. The joint RAC/SAC meeting will be held on Monday, August 8 from 11:00 am to 2:00 pm. Members of the Board are invited to attend.

### EDUCATION AND STUDENT ACTIVITIES COMMITTEE (ESAC)

John Norgard noted that there would be a report on the activities of this committee at the Thursday evening Board meeting.

## **9.0 CONFERENCE SERVICES**

Barry Wallen, Vice President for Conference Services, presented his report. (See VP Conferences Report.) He provided the following update on EMC-S Symposiums:

### **EMC'2005 Chicago, IL (Chair: Tom Braxton)**

Final programs, fun guides, pocket guides, banners, signs, and promotional game pieces are printed and have been or are being delivered to Navy Pier. Antenna installation for the K9EMC Amateur Radio station is scheduled for August 5<sup>th</sup>. Technical sessions, workshops, experiments and demonstrations scheduled are in place. FedEx/Kinko's and Leader Tech have signed on as special patrons. The budget continues to undergo scrutiny. Material purchases (speaker gifts, guest gifts, tote bags, committee shirts, etc.) were aggressively negotiated and all came in under budget. Aggressive recruitment of volunteers has made temporary employee hiring unnecessary. Negotiated travel credits from United Airlines saved significantly on staff travel costs. The current forecast for the surplus is conservatively estimated at 15% or \$150K. As of July 22, there are 223 booths and eight tabletops sold to 162 exhibitors, which is slightly behind Boston's pace (2003 = 232/167) and slightly behind Santa Clara's pace (2004 = 231/171).

### **EMC'2006 Portland, OR (Chair: Henry Benitez)**

Committees are in place for technical programs, social programs, and administrative aspects. Regarding the budget, only slight revisions have been made to adopt symposium registration pricing as per Barry Wallen's new mandate. The host hotel contracts are in place. The Convention Center has been reserved. A booth will be provided at Chicago EMC 2005 to promote Portland EMC 2006. Promotional material and gifts will be handed out. Possible pictures may be taken with Lewis and Clark and maybe Sacagawea in line with the "Lewis and Clark 200 Year Anniversary" theme.

### **EMC'2007 Honolulu, HI 50<sup>th</sup> Anniversary Symposium (Chair: Janet O'Neil)**

Chair Janet O'Neil reports that a committee meeting was held at the host hotel, the Hilton Hawaiian Village, over July 6-8. During the meeting, the schedule for the symposium week was confirmed. The traditional symposium week will be held Tuesday through Thursday for papers and the exhibition, but the workshops will be held on Sunday and Monday. Friday will be reserved for a special anniversary celebration involving a narrated tour of the island and a stop at a hotel for an anniversary luncheon. Activity on the luncheon is being coordinated with the EMC-S History Chair, Dan Hoolihan. The committee took this tour last month and visited the hotel where the luncheon will be held. At the July meetings, the committee confirmed the venues for the social events (Tuesday Reception and Wednesday Gala) and confirmed rooms at the convention center for various technical sessions. The newest committee member is Mark Steffka of GM and the University of Michigan at Dearborn. He will work with the technical program chairs to coordinate a special session on "Automotive EMC" with the intent to attract the EMC engineers from Asia automobile manufacturers. He will also be in charge of the special EMC history by decade session to be presented in 2007.

### **EMC'2008 Detroit, MI (Chair: Kimball Williams)**

No report was received as of August 3. The host hotel and Convention Center Contracts are signed.

### **EMC'2009 Austin, TX (Chair: David Staggs)**

IEEE Insurance and Information Schedule forms are complete and submitted to IEEE CMS. They are currently in negotiations with the Austin Convention Center that will lead to a contract being signed between the Austin Convention Center and IEEE. The IEEE CMS contract with the Central Texas Chapter is on hold, pending a financial impact review, as compared to the 2008, 2007 and 2006 IEEE EMC Symposia. Symposia Committee members include: General Chairman – David Staggs, Vice Chairman – John O'Brien, Secretary – Michael Royer, Treasurer – Patrick Webb, Technical Program – Dr. Michael Foegelle, Exhibits/New Product Presentations – Mark Prchlik and Publicity (Public Relations) – Glen Watkins. The host hotel (Hilton across from the Convention Center) contract is signed. The Convention Center has been reserved.

### **EMC'2010 (Location TBD)**

Mr. Wallen noted that there are three potential candidates for the venue of this symposium as follows: Washington DC/Northern Virginia with chair Mike Violette, Fort Lauderdale with chair Fred Heather, and Vancouver British Columbia, Canada with chair Jerry Page. Presentations were made by Art Wall and Leo Makowski on Washington DC and by Fred Heather on Fort Lauderdale. Material was not received from Vancouver in time for a presentation to be made. Mr. Wallen noted that Bruce Archambeault is chair of the Symposium Site Selection Evaluation Committee. Mr. Archambeault will prepare a study showing the benefits of each location. He plans to take the information from each venue proposed and tabulate the data in a spreadsheet. He will ensure that each committee return information on the symposium venue “checklist” to ensure that the venues are compared on an “apples to apples” basis. The Board will review this at the November meeting and then vote on the location.

### **EXHIBITOR LIAISON**

Janet O'Neil noted that she is working on the agenda for the Exhibitors Breakfast in Chicago and coordinating the respective presentations to be made. Henry Benitez, Chair of the EMC 2006 Symposium, will give a presentation at this breakfast meeting. There will be further information on EMC 2007 as a result of the committee meeting in Hawaii over July 6-8. Of course, EMC 2005 Chicago will have a report to make at this breakfast on registration numbers, etc.

### **GLOBAL EMC SYMPOSIA**

#### **Current Status of EMC-S Cooperation with Global Conferences and Symposia**

Dr. Nigel Carter, the Global Symposia Coordinator, provided updated data regarding Global Symposia and Conferences, which are (or proposed to be) Technically Co-Sponsored by the EMC-S.

<b>Conference</b>	<b>Dates</b>	<b>EMC-S Approval</b>
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<b>Conference</b>	<b>Dates</b>	<b>EMC-S Approval</b>
16 <sup>th</sup> International Zurich Symposium & Technical Exhibition on Electromagnetic Compatibility	Feb., 14-18, 2005	Technical Co-Sponsorship approved based on Board Policy. MOU signed
17 <sup>th</sup> International Zurich Symposium & Technical Exhibition on Electromagnetic Compatibility - Singapore	Feb. 28 and March 3, 2006	Technical Co-Sponsorship approved based on Board Policy. MOU signed
EMC Europe 2006 Barcelona, Spain	September 4 - 8, 2006	Technical Co-Sponsorship approved based on Board Policy. MOU signed
EMC Compo, Munich Germany	November 28-30, 2005	Technical Co-Sponsorship approved based on Board Policy. MOU drafted for signature
Product Safety Engineering Society Symposium, Schaumburg, IL	October 3-4, 2005	Request forwarded to TAC for consideration of technical co-sponsorship. Approved and MOU signed
III International Symposium On Power, Bogotá Colombia	November 16-18, 2005	Request forwarded to TAC for consideration of technical co-sponsorship. Board disapproved.

## REGIONAL CONFERENCES

Regarding regional conferences in Regions 1-7, Janet O'Neil reported that there have not been any tabletop shows since her May 24, 2005 Board report. Typically, the Chapters do not hold these events in the summer. The Los Angeles EMC Chapter has confirmed a tabletop show on "Aerospace EMC" for Monday, September 26, 2005. She is working with LA Chapter Chair Ray Adams on this colloquium and exhibition. Chapters are planning various tabletop shows for 2006, including the Milwaukee, SE Michigan and Chicago Chapters who hold annual tabletop shows in the spring.

Frank Sabath reported on activities in Region 8. He noted that steps are being taken to prepare a MOU between the IEEE EMC Society and the steering committee of the EMC Europe. The negotiations have continued since the May report. Due to the main view inside the international steering committee of EMC Europe, Johan Catrysse suggested that the MoU should be discussed and accepted by the steering committee before presenting it to the EMC-S Board. The next meeting of the international steering committee is scheduled in parallel with the EMC Europe Workshop over September 19 – 21, 2005. Regarding the retention of records of Co-Sponsored symposia, there is nothing new to be report. The following EMC conferences will take place in Region 8:

### **EMC Europe Workshop (Region 8 Workshop)**

Date: September 19 – 21, 2005,  
Location: Rome, Italy  
Scope: Electromagnetic Compatibility of Wireless Systems  
Contact: Mauro Felizian, [felizian@ing.univaq.it](mailto:felizian@ing.univaq.it)  
EMC-S Liaison: Prof. Dr. Heyno Garbe

### **5<sup>th</sup> International Workshop on EMC of Integrated Circuits (EMC Compo 2005)**

Date: November 28-30, 2005  
Location: Munich, Germany  
Status: Technical Co-Sponsorship approved

Mr. Sabath prepared an MoU on technical co-sponsorship as well as a conference information sheet. Both documents have been sent to Mr. T. Steinecke. During the workshop, the IEEE German EMC-Chapter will be present and operate an exhibition booth.

### **EMC Wroclaw 2006**

Date: June, 2006  
Location: Wroclaw, Poland  
Status: Unknown

Past Wroclaw symposia were co-sponsored by the IEEE EMC-S. The current status of this MOU is unknown.

### **EMC Europe 2006**

Date: September 11 – 15, 2006  
Location: Barcelona, Spain  
Status: Technical Co-Sponsorship approved

## VII<sup>th</sup> International Symposium on EMC and Electromagnetic Ecology

Date: June 2007  
 Location: St. Petersburg, Russia  
 Status: The organizing committee is writing a letter of application for Technical Co-Sponsorship.

Regarding Region 9, Janet O'Neil reported that no tabletop shows have been scheduled for 2005. Plans are to wait until 2006 to have a colloquium and exhibition in Brazil.

Regarding Region 10, Professor Shuichi Nitta reported that the International Conference on EMC 2005 (ICEMC2005) was held in Phuket, Thailand July 27 to 29. 73 people attended. Technical papers were mainly from Thailand (33), Japan (13), and China (7). A total of 61 papers were presented. Following are the future regularly scheduled EMC conferences in Region 10:

Country	Name of Event	The latest open year	Period (Next Symp)	Chair/ Representative	EMC-S Involvement
Japan	International Symp. On EMC (6 <sup>th</sup> )	2009	5 years	Undecided	Normally Tech. Co-Sponsor
China	Asia-Pacific Conference on Environmental Electromagnetics (CEEM'06) Dalian China (4 <sup>th</sup> )	Aug.1-4 2006	3 years	Prof. Gao Yougang BUPT Beijing China	Tech. Co-Sponsor Approved MOU signed
China	International Symposium on EMC, Beijing China	2007 (4 <sup>th</sup> )	5 years	Prof. Gao Yougang BUPT Beijing China	Normally Tech. Co-Sponsor
Thailand	International Conf. On EMC (ICEMC'2005) (2 <sup>nd</sup> )	July 20-22, 2005	3 years (July 2008)	Dr. Werachet Khanngern, KMITL Thailand	TBD
India	International Conf. On EMI/C (INCEMIC) Phuket, Thailand	2005	2 years (2005)		TBD
Korea-Japan	Korea-Japan Joint Conference on EMC/AP/EMT (4 <sup>th</sup> ) (Local Conference)	Nov. 22-23, 2004 2006 Date - ???	2 years	Prof. Y. Kami UEC Japan Prof. EOM KAIST Korea	None
Taiwan	2005 Asia Symposium on EMC, Taipei Taiwan (1 <sup>st</sup> ) (Note 1)	Nov. 22-24, 2005	Undecided	Prof. S.T. Peng Chiao Tung Univ. Taiwan	Tech. Co-Sponsor Approved MOU submitted

## INSTITUTIONALIZATION OF EMC-S SYMPOSIA

Mr. Wallen reported that progress is being made to fill the positions outlined at the May Board meeting. The following positions have been filled to date:

Mike Violette – International Conference Committee Chairman

Bruce Archambeault – Symposium Selection Committee Chairman

Mr. Wallen will meet with key individuals at the Symposium in August in an attempt to fill the vacant positions.

## **10.0 EMC SOCIETY 50<sup>TH</sup> ANNIVERSARY COMMITTEE**

Dan Hoolihan presented his report. (See History/Anniversary Report.) Oral interviews with Warren Kesselman, Chester Smith, and Leonard W. Thomas, Sr. are available on [http://www.ieee.org/organizations/history\\_center/oral\\_histories.html](http://www.ieee.org/organizations/history_center/oral_histories.html) or type “oral histories” into the search window of the IEEE web page. The interviews are nearly completed on Ralph Showers and Milton Kant (both are founders of the EMC-S). Interviews continue by the historians of the IEEE History Center. Interviews currently in process are James P. McNaul (the 2<sup>nd</sup> President of the EMC-S), Joseph F. Fischer (13<sup>th</sup> President of the EMC-S), William Eugene (Gene) Cory (14<sup>th</sup> President of the EMC-S), and Anthony G. Zimbalatti (Founder of the EMC-S). The IEEE History Center has begun researching materials for the booklet on the history of the EMC Society. Research efforts include collecting and processing appropriate photographs of the EMC Society’s past events and happenings. Ghery Pettit and Flavio Canavero have started to look at a special issue of the Transactions to commemorate the 50<sup>th</sup> Anniversary. This issue will be similar to the EMC-S Silver Anniversary Issue published by the IEEE in August of 1983 (Volume EMC-25 – Number 3). The committee hopes to benefit from the IEEE’s recent efforts on digitizing all records prior to 1988 and placing them in the electronic laboratory to be accessed via Xplore. The committee is discussing coordination of the costs for putting all the EMC-S Transactions on a DVD with the IEEE as part of this “digitization” project. They also continue to research the costs and methods of putting the EMC-S Symposium Records on a DVD; they hope to get some of the IEEE’s digitization money for this project also. An article was written for the Summer issue of the EMC-S newsletter. The article asks for recommendations on the best 10 papers of the last 50 years, including the Best 10 Transactions Papers and the Best 10 Symposium Papers. As of 1 August 2005, no suggestions or recommendations have been received! However, the Silver Anniversary Issue of the Transactions (EMC 25-3) has indices to the 1959-1982 Transactions and the 1962-1982 Symposium Records, which will be used to find prospects for the best papers. Another article was written for the EMC-S newsletter for the Fall Issue. This article looks at the IEEE International EMC Symposia for the first 25 years of the EMC-S history. The committee is trying to publish one “historical” article in every issue of the newsletter from now until July of 2007. A Power Point presentation on the history of the EMC Society continues under development. Progress remains slow due to personal commitments on the part of the person developing the PP presentation. It is now hoped to give the presentation as part of the Distinguished Lecturer program of the EMC-S starting in 2006. Discussions continue with the Creative Services division of the IEEE on a proposal for a common logo for the 2007 Symposium and the 50<sup>th</sup> Anniversary Celebration. A final 50<sup>th</sup> Anniversary Logo has been approved by the 50<sup>th</sup> Anniversary committee and will appear on the cover of the Summer 2005 EMC Newsletter. The Anniversary Committee is chaired by Dan Hoolihan, with the following members: Warren Kesselman – History Subcommittee Chair, Len Carlson – Public Relations Subcommittee Chair, Henry Benitez – Special Awards Subcommittee Chair, Janet O’Neil – “Dotted Line” – Chair – 2007 IEEE International Symposium on EMC, Bill Gjertson – Commemorative Items Subcommittee Chair, Jerry Ramie – Power-Point Presentation on EMC-S History, Elya Joffe – History of Fellows Award Winners for EMC-S, Joe Butler – Special Anniversary Awards – Technical Achievements. General committee members include Bill Duff, Bob Goldblum, Fred

Heather, Don Heirman, Todd Hubing, Herb Mertel, Mark Montrose, Henry Ott, and Kimball Williams.

The committee is researching special events at the 2007 Symposium, special Anniversary Awards for Technical Achievements, commemorative items, membership incentives, an announcement of the Top Technical Papers in the first 50 Years, exhibits on the EMC Society at IEEE Headquarters, a special luncheon at the Hawaii symposium for past presidents and founders, special plaques for pioneering technical papers, a 50<sup>th</sup> anniversary pin, mini-colloquia, a traveling exhibit of historic EMC test equipment, and a meeting between past-presidents and students at the symposium in 2007.

## **11.0 OLD BUSINESS**

### **Memorandum of Understanding: Marketing and Promotion**

Mark Montrose presented a draft MOU that outlined cooperative cross marketing of EMC-S material with other publications. Ghery Pettit noted that the MTT Society publishes the advance program for their symposium within their own magazine. Mr. Montrose requested that an ad hoc committee be formed to revise this MOU from the comments received during the meeting.

### **Governance**

Mark Montrose discussed the TAB edict that Societies need to conform their bylaws and constitutions to be consistent with IEEE governance documents. The Board agreed to defer discussion on this until the IEEE Five-Year Review of the EMC-S is returned to President Williams. If this is noted as a pressing concern from IEEE, then the Board will address this topic.

## **12.0 NEW BUSINESS**

### **Symposium Policy Document**

President Williams asked Fred Heather and Barry Wallen to work together in updating this document so it can be distributed to the Board by the November meeting.

### **EMC-S Handbook**

President Williams asked about the status of this handbook and getting it updated. Mark Montrose and Ghery Pettit volunteered to update this document and distribute this to the Board by the November meeting.

### **Field of Interest Statement**

President Williams requested that Fred Heather and Mark Montrose work together on the EMC-S Field of Interest Statement. Mr. Kesselman advised that there was a short and succinct version in the Chicago Symposium advance program.

### **Cross Marketing of Related Society Symposia**

The Board discussed the presentation by Don Heirman at the last meeting regarding technical sessions at related Society symposiums. Dan Hoolihan moved to support an EMC-S workshop at the new IEEE Radio and Wireless Symposium over January 17-19, 2006 in San Diego, CA. Todd Hubing moved to table the motion until Thursday evening's Board meeting. The motion to table was seconded and approved. Don Heirman agreed to research if there is room in this symposium to have an EMC-S organized session.

### **New Chapter Coordinator**

President Williams advised that Francesca Maradei is the new Chapters Coordinator replacing Ghery Pettit. President Williams requested that Board members assist her in this effort. Warren Kesselman moved to formally appoint Francesca Maradei as the new Chapters Coordinator. The motion was seconded and approved.

### **New Patron Program**

Barry Wallen led a discussion on revising the Patron Program for exhibitors at the EMC Symposium. This is being discussed with IEEE CMS and Janet O'Neil, Exhibitor Liaison. It will be presented at the Exhibitors Breakfast in Chicago. Part of the plan is to offer sponsorship of the symposium registration bags. One company will pay for the bags in exchange for having their company logo on the bag. The Board did not see any problem with offering this promotional opportunity to the exhibitors in order to keep the symposium expenses down.

## **13.0 ACTION ITEM REVIEW**

President Williams reviewed the action items discussed during the meeting.

## **14.0 ADJOURNMENT**

There being no further business, the meeting adjourned at 5:00 pm. President Williams noted the meeting would continue on Thursday evening, for a working dinner meeting starting at 6:00 pm in the Sheraton Hotel.

*NOTE: The Board Meeting continued on August 11 for a working Board meeting, starting at 6:00 pm. Additional guests included Bill Strauss, M. Sabrina Sarto, Chris Holloway, Bob Davis, Takeo Yoshino, Arto Chubukjian, Maqsood Mohd, John LaSalle, and Moshe Netzer.*

*The following items were discussed during the working dinner meeting:*

### **EMC 2005 CHICAGO**

Bob Hofmann reported on the budget for Chicago 2005. Income is slightly over \$1 million, and expenses are slightly under \$1 million. The expected surplus is estimated to \$161,000.

### **STANDARDS ACTIVITY**

Don Heirman reported on Standards Activity during the symposium. He noted that he needed to leave the awards luncheon early in order to chair a session. He asked that there be a ½ hour gap between the end of the awards luncheon and the start of the next technical sessions at EMC 2006 and

beyond. In general, the standards meetings held in Chicago were well attended. The main topics discussed during the meetings included Broadband over Power Line Communications (i.e., BPL, the “hot” technical topic as expected), having the vice chair of a project team and not co-chair, searching for EMC-S participants and leaders, and encouraging EMC-S members to sign up to vote on the BPL IEEE Standard P1775. Regarding the BPL sessions in Chicago, approximately 70 people attended. The standard on Probe Calibrations (Std 1309) was approved in June 2005 and should be available by early October; an annex is applicable to IEC 61000-4-3 field strength calibration. An IEC SC 77B draft standards activity on probe calibration contains duplicate material which needs to be discussed so as not to replicate IEEE copyrighted material. There is a possibility of a joint effort between the SDCom and SC77B WG10 on the next revision with amendments to have test chamber use specifics. Regarding standards meetings held during the symposium week, the Standards Development Committee (SDCom) met twice; SETCom did not; and SACCom met in conjunction with the annual RAC/SACCom luncheon. For the SDCom meetings, approximately 25 people attended; 14 SDCom members and 10 guests presented over the two parts of meeting. The agenda topics included a review of the membership status, standards status, study projects, symposium coordination planning, and standards coordination activity. Regarding membership, there is a need for more volunteers for special projects and officers to administer the committee (a vice chair in particular). The Board was solicited for people to contact to be the new SACCom chair, vice chair and secretary as well as the new SETCom chair, vice chair and secretary. Mr. Heirman indicated that the IEEE Standards Association requested the identification of working group members so that their IEEE indemnification is in place as well as checking to see if any working groups have IEEE bank accounts that need to be audited. Regarding standards activity and the status of projects, a line replaceable module PAR has been readied for the IEEE SA New Standards Committee (NesCom) processing and the SDCom secretary is checking the status. On Broadband Powerline Access, the EMC-S SDCom is continuing to get in the mainstream of an in-situ measurement PAR with PES. Regarding the TV emission measurement standard (Std. 187), this is being resubmitted to IEC for dual logo status. On shielding effectiveness (Std. 299), this is being recirculated, on impulse bandwidth (Std. 376), SDCom is awaiting input from contacted experts. For the EM site survey (Std. 473) a one-year extension has been granted and it should be ready for ballot soon. On the RF absorber evaluation (Std. 1128), ballot resolving VDT magnetic emissions measurements (Std. 1140), the reaffirmation has been completed. The standard on gasket characterization (Std. 1302) needs progress. The probe calibration standard 1309 was approved and is in editing. The standard on RF filter performance (P1560) has been sent to the Standards Association Review Committee (RevCom). The standard on Computational EM (P1597) was granted a one-year extension. It is in its third revision and has been subjected to editing delays. On the standard Intentional EMI to computers, a draft is due in 2006. On Software Defined Radio Conformance (P1900), this work is just starting.

## COMMUNICATIONS SERVICES

Ghery Pettit then reported on Communications Services. He advised that he has spoken with Flavio Canavero to discuss candidates for his successor as Editor in Chief of the Transactions on EMC. Mr. Pettit will contact these potential candidates directly to determine their interest and ability to serve in this capacity.

## TECHNICAL SERVICES

John Norgard reported for Technical Services and their various activities during the Chicago Symposium.

Maqsood Mohd advised that NARTE recruited 18 new members during the symposium. The Student Activities Committee was very active during the symposium. He reported that the Fundamentals Tutorial was well attended again this year with some 350 present. He asked the audience how many were attending this tutorial for the first time. Approximately two thirds of the audience responded that this was their first symposium. Mr. Mohd noted that Randy Jost of Utah State University is the new chair of the University Grant Program, replacing John Howard. There were few proposals for the grant submitted this year. The committee will address more effective outreach methods in order to raise the level of submissions. Mr. Mohd moved to convert the old EMC educational VHS tapes to DVD at a cost not to exceed \$1,000. The motion was seconded and approved.

Bob Davis presented a report on the activities of the EIA G46 committee. The committee represents industry and is active in developing military standards such as MIL-STD-461. Mr. Norgard moved to permit the EIA G46 committee to use the EMC membership list to contact volunteers to work on the committee. The motion was seconded and approved. President Williams noted that this list would be available on a one-time basis only. It was suggested that an e-mail blast be sent two weeks before the symposium in order to promote collateral meetings. Considerable discussion ensued. Lee Hill moved to defer this discussion to a committee. The motion was seconded and approved. Don Sweeney, Fred Heather, and Bob Davis volunteered to work on this committee, reporting to John Norgard.

Fred Heather reported about the RAC/SACCom luncheon. He will write an article for the Newsletter about the luncheon.

Bill Strauss reported on the full papers submitted this year for the Chicago symposium. 207 submissions of full papers were received this year. No substantial decrease in paper submissions was observed. 96 papers were reclassified. There were 41 student papers and 37 open forum requests. The rejection rate was 15-20%. He noted that the on line distribution review system worked well. Compiling comments on reviews did not work out well and needs to be addressed for the Portland 2006 symposium. TAC suggests for next year that authors are asked up front if they want to be in the open forum or considered as a full presentation paper. He would like to see open forum papers also receive a best paper award at the symposium and be considered as equal to the regular presentation papers.

John Norgard presented the following new officers of TAC:

TC-1: Dave Southworth (replacing Dan Hoolihan)

TC-3: Nigel Carter (replacing D. Gilliland)

TC-9: Bruce Archambeault (replacing Chris Holloway)

TC-10: Jim Nadolny (replacing Jim Drewniak)

Chris Holloway and Sabrina Sarto gave a presentation on a proposal for a new working group on “Nanotechnology and Advance Materials”. Mr. Holloway and Ms. Sarto would co-chair the working group. (See Proposal for New Technical Committee on Nanotechnology Report.) They would like to form an official working group as research in nanotechnology is moving from “basic” research to “applied” research. John Norgard will evaluate this further for discussion at the November Board meeting.

## MEMBERSHIP SERVICES

Elya Joffe reported on Membership Services. He advised that the Houston Chapter is being revitalized under the direction of Board member Bob Scully. There is also a new Chapter being formed in Kansas. Mr. Joffe noted that he met ~~ited~~ with members of the potential new Chapter in Australia during the Symposium. He intends to travel there to speak to the Chapters. He also met with members of the EMC Society in Mexico City and will work with them to create a new EMC Chapter. Mr. Joffe moved that new members recruited for the purpose of (signing a petition for) forming a new IEEE EMC Chapter (where no such Chapter exists) be granted for free first year EMC-S membership. This offer shall be valid until the date of submission of the petition only. The motion was seconded and approved. Dave Staggs reported for the membership booth. He noted that traffic was very heavy. Many people completed the survey to receive the coffee cup. 10 new IEEE members and 26 new EMC Society members were recruited during the symposium. The Hawaii promotional material and the IEEE magazines on display attracted visitors to the booth.

Mr. Joffe spoke with the various magazine representatives at the symposium exhibition. He will draft an article about EMC membership and submit it to them for publication in their respective magazines. He will also include a membership application with the article. He will submit this to the EMC Newsletter as well.

## 50<sup>TH</sup> ANNIVERSARY COMMITTEE

Dan Hoolihan invited the Board to attend the 50<sup>th</sup> anniversary committee meeting on Friday, August 12. There will be a two-hour meeting at noon in room 314 at the Navy Pier.

## CONFERENCES

Nigel Carter presented an update on international symposia in Europe. (See Global Conferences Report.) He suggested that the TAC questionnaire be posted to the EMC-S website to avoid delays in completing the information. Mr. Carter reviewed the matrix of upcoming conferences and the status of EMC-S co-sponsorship. Andy Drozd then reported on the history and interest areas of the Waveform Diversity Conference and its relationship with the IEEE Aerospace and Communications Societies.

Nigel Carter moved to approve EMC-S technical co-sponsorship of the 4<sup>th</sup> International Workshop on Biological Effects of EM Fields. The motion was seconded and approved. Nigel Carter moved to approve EMC-S technical co-sponsorship of the 18<sup>th</sup> Wroclaw EMC Symposium in 2006. The motion was seconded and approved. Todd Hubing moved to approve EMC-S technical co-sponsorship of the Waveform Diversity conference. The motion was seconded and approved.

## ACTION ITEMS

Janet O'Neil then read the action items assigned at the Board meetings on Sunday and Thursday of the Symposium week. The consolidated Action Item list was subsequently distributed to the Board via e-mail. (See Action Item List.)

#### ADJOURNMENT

Kimball Williams noted that the next Board meeting would be on Tuesday, November 14 in Portland, Oregon. The Standards Committees and others would meet the day before. Contact EMC-S Secretary Janet O'Neil for the full schedule of meetings in Portland. The Board meeting then adjourned at 9:18 pm.

Submitted by:

Janet O'Neil,  
Secretary,  
EMC Society Board of Directors