<u>**APPROVED MINUTES**</u>
OF THE IEEE EMC SOCIETY (EMCS)
BOARD OF DIRECTORS MEETING

July 7, 2007
The Hilton Hawaiian Village Resort and Spa
Honolulu, Hawaii

MEMBERS PRESENT (23)

B. Archambeault
H. Benitez
C. Brench
A. Drozd
R. Ford
B. Goldblum
F. Heather
D. Heirman
L. Hill
D. Hoolihan
T. Hubing
E. Joffe
F. Maradei
M. Montrose
J. O'Neil
J. Norgard
G. Pettit
R. Scully
D. Staggs
D. Sweeney
R. Wallen
K. Williams
T. Yoshino

MEMBERS ABSENT (1)

W. Kesselman

GUESTS (5)
M. Handley
R. Hofmann
G. Kilshaw
M. Oliver
F. Sabbath

1.0 THE PRESIDENT'S OPENING REMARKS/CONSENT AGENDA

President Drozd called the meeting to order at 8:30 am. A round of introductions was made. President Drozd reviewed activity since the last meeting (See President's Opening Remarks). The topics included review of outreach visits to the new Chapters in Hong Kong, Colombia, and Australia, the proposed TAB new voting procedures to allow a President to vote in case of a tie, and the new Society Member Digital Library (SMDL) Benefit (2008). He then presented the agenda and noted the items shown under the Consent Agenda. (See Agenda dated July 7, 2007.) Barry Wallen requested the PSES Technical Co-Sponsorship item be pulled from the consent agenda. **Bob Scully moved to approve the consent agenda as amended. The motion was seconded and approved.** The approved March 2007 Board minutes will be posted to the EMC Society website.

2.0 FINANCE COMMITTEE REPORT

Kimball Williams presented the finance committee report. (Reference Finance Report.) He presented recommendations to diversify our budgetary accounting to add line items to our financial documents for clarity, support experiments to diversify and multiply income potentials (conferences/specialty workshops/etc.), more clearly define volunteer activities at all levels, increase activities that promote the EMC Society outside of our 'traditional' linkages, and seek closer 'personal' contact and greater Society involvement with our current members.

President Drozd reviewed a budget metric report provided by Assistant Treasurer John LaSalle. This includes a review of membership statistics, budget impact from meetings/conferences, the distinguished lecturer program, and travel expenses. For example, membership has declined considerably since 1999, there is a consistent under utilization of the DL account travel expenses, etc. In summary, EMCS needs to improve its budgeting capabilities to better project expenses and income.

Mr. Williams referred to Treasurer Warren Kesselman's report, which was circulated to the Board prior to the meeting. (Reference Treasurer's Report.) Regarding 2006 operations, IEEE's 2006 Final Audited Finance Report indicates an operating surplus of $421,100. Regarding 2007 operations, IEEE's 30 May 2007 financials indicate an operating net in the order of $100,000. This is about "normal" for the first part of the year. 2008 BUDGET DEVELOPMENT: Regarding 2008 budget development, a cost center summary of EMCS's "1st Pass" 2008 budget was presented. It projects a $25,800 net surplus. TAB Finance staff will provide a 2nd Pass budget in July at which time EMCS's Finance Committee may revise operating details. The deadline for return of that budget to IEEE is August 3, 2007. The Treasurer's report was approved as part of the consent agenda noted above.

3.0 PRESIDENT-ELECT REPORT

Elya Joffe talked about the long range planning session in Red Bank, NJ. (See President Elect Report.) He requested volunteers who are willing to travel to help with the chapter outreach efforts. He suggested holding 1-2 telecoms before the November Board meeting related to further developing the long-range plan. On chapter outreach, he would like to increase the emphasis on outreach to areas in Eastern Europe, and South East Asia, including Korea and China.

4.0 COMMUNICATION SERVICES

Ghery Pettit, Vice-President for Communication Services, presented his report. (Reference VP Communications report.) One of Mr. Pettit's action items from the past Board meeting was to publish the past symposium best papers in the Transactions on EMC. After discussion with Perry Wilson, the editor of the Transactions on EMC, it was decided not to pursue this plan. IEEE members can access these papers on Xplore; thus, it is not a good use of the budgeted Transactions' printed pages. Mr. Pettit noted that Dave Staggs, as the new VP for Member Services, has stepped down as the Public Relations Chair. If anyone is interested in filling this position, please contact Mr. Pettit.

Mr. Pettit talked about replacing the FTP site with a "web board" service that would be available on the IEEE server. The main benefit is that it is accessible from Board member work locations. President Drozd would like to see a complete transition from the FTP site to the EMCS web board by the November meeting. Mr. Pettit will conduct training on the use of the web board at the next meeting.

NEWSLETTER

Janet O'Neil, Editor, reported on activity since the last Board meeting as follows:

The **Spring 2007 issue** was 84 pages and included a special section on the EMC Anniversary activities in Hawaii. As part of the continuing focus on history, and linking to the presentation by Tapan Sarkar at the plenary session in Hawaii, the issue included a reprint of James C. Rautio's article on Maxwell. John Norgard contributed the book review on "The History of Wireless" by Sarkar, et. al. that relates to Maxwell. There was one practical paper and the regular feature articles, including the President's Message, Chapter Chatter, etc. Don Heirman contributed an extensive article on the history of IEEE EMC standards as well as his regular article on various standards committee activities globally. There were also several pages welcoming the new members of the EMCS and recognizing the new IEEE senior members in the EMCS. And, two founders of the EMC Society were recognized in an obituary section, along with Bob Brook.

The **EMC 2007 Advance Program** was a separate document that was shrink wrapped and mailed with the Spring 2007 EMC Newsletter. This document was 74 pages. It included highlights of symposium activity and the abstracts of the technical papers. Last year, the EMC 2006 advance program was included as a special section inside the Spring 2006 issue. This amounted to a 116-page issue, which was pushing the staple binding. Since we received comments that people "missed" seeing the advance program for EMC 2006 and since the length was a challenge using the staple binding, this year we decided to have two separate documents, but mail them together to save on postage.

Below are some facts about the issue:
Total pages between the two documents: 156
Total press run: 12,240 (6,120 of each document)
                                         Includes mailing to non-member past attendees at EMC 2004-2006
Total cost for two documents, including postage: $31,224

Total ad billing revenue: $30,187 for Newsletter plus $10,553 for EMC 2007 AP
Net ad revenue received by Society: $21,418.88

In comparison, the Spring 2006 issue at 116 pages, which included the EMC 2006 advance program, cost $33,558 and the net ad revenue received by the Society was $19,401. It should be noted that last year, this issue had a press run of 11,508, which included non-members who attended past symposiums, and others as pulled by Vita Feuerstein. This year we cut back on the press run to cut costs since it was noted that the high number mailed did not result in greater attendance at EMC 2006.

It should be noted that mailing the two documents resulted in postage and print costs that were considerably less than the EMC 2005 advance program, for example, which was the last time an advance program was printed and mailed as a completely separate document. The EMC 2005 advance program cost $17,855.67 to print and mail, with $1,250 received in advertising revenue.

General Information
Ms. O'Neil attended the IEEE Panel of Editors meeting held on April 27 and 28 in Chicago. This always provides great networking opportunities with other editors and information on IEEE publishing department activities. Perry Wilson, Editor Transactions on EMC, was there as well. Perry suggested including the table of contents for the Transactions on EMC special 50th anniversary issue in the EMC Newsletter. We did this in the Spring 2007 issue. Perry also suggested sending an e-mail blast to EMC members of the table of contents when each issue is published so members will know what new papers have been uploaded to Xplore. Perry plans to pursue this.

TRANSACTIONS

Perry Wilson, Editor, reported that as of June 15, 2007, 120 manuscripts have been submitted in 2007. Of these, approximately 114 are new. The rest are either duplicates or were withdrawn. Month-by-month statistics are shown in Table 1 going back to 2003 (thanks to Prof. Canavero for the 2003-2006 data).

Table 1. New Paper Submissions

	2003	2004	2005	2006	2007
January	11	10	19	18	27
February	13	20	11	79 (*)	11
March	13	12	16	14	21
April	13	14	16	17	20
May	19	20	14	20	31
June	11	23	21	21	10***
July	29	15	23	15	
August	15	16	11	28	
September	19	17	17	20	
October	16	17	11	22	
November	9	9	16	0	
December	10	14	12	0	
Total	178	187	187	301 (**)	250****

(*) 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 June 15, 2007
(****) projected at current rate

Duplicate submissions have been occurring due to his request for editing prior to assignment to an Associate Editor. He has been reading each paper for scope, grammar, punctuation, and compliance of the references with IEEE style. Presently, about 70% of the submissions are from non-English speaking countries. A breakdown of the first 100 submissions in 2007 is shown in Table 2. A good portion of these papers need significant revision for readability that is very time consuming.

Table 2. New Paper Submissions by Region

	2007*	2008	2009
Region 1-7 (US, Canada)	19		
Region 8 (Europe, Middle East, Africa)	42		
Region 9 (Central and South America)	5		
Region 10 (Asia, Pacific)	28		
Withdrawals, Duplicate Submissions	6		
Total	100		

* first 100 papers (early June)

Table 2 shows that over 40% of the submissions come from Region 8. Most are from Europe with 1 from the Middle East (Israel) and 1 from Africa (South Africa). Region 10 is the next biggest contributor with nearly 30% of the papers. Note that, of the 28 Region 10 submissions, 13 are from China. We currently do not have an Associate Editor form China. I hope to identify one. Of the 5 Region 9 submissions, 3 were from Brazil. This may be another area where we can seek a future Associate Editor.

Regarding Transactions production, as of the May 2007 issue, he is working with a new IEEE Staff Editor, Mr. George Criscione. Regarding Special Issues/Sections: The May issue contains a Special Section honoring the 50th Anniversary of the IEEE EMC Society. A number of distinguished members of the IEEE EMC Society were contacted by Prof. Canavero and Dr. Wilson and invited to contribute review/historical/personal papers. The goal was to publish the papers in the May 2007 issue, prior to the EMCS Symposium in July. Six authors were able to meet the schedule: Carl Baum,

Marcello D'Amore, Dave Hill, Michel Ianoz, Clayton Paul, and Hermann Singer. Their papers are an interesting mix of topics and reminiscences that we hope contribute to this celebratory year. For 2008, a Special Issue on Aerospace EMC is planned with R. Perez as Guest Editor. Dr. Perez has invited 20 authors who have committed to write papers on various aspects of Aerospace EMC. Regarding Associate Editors, he is grateful that most Associate Editors have agreed to continue this year. He has invited and received commitments from three new Associate Editors as of June. These are: Prof. Li Erping, National University of Singapore (expertise: signal integrity, bioelectromagnetics, numerical methods), Prof. Niels Kuster (bioelectromagnetics, numerical methods), Technical University of Zurich, and Prof. Farhad Rachidi, Technical University of Lausanne (lightning, transmission lines). Bioelectromagnetics, lightning, and signal integrity are all areas where more support was needed. He raised the question as to whether there is some additional way to reward Associate Editors for all the work they contribute to the Transactions and, thereby, to the EMCS. Ideas might be: waived IEEE dues or symposium registration fees, certificates of recognition/appreciation, sponsored, dinner, etc. Perhaps, the BoD has ideas or precedents.

WEB

Mr. Pettit advised he is working with Shannon Archambeault to resolve broken links and update content on the web site. There is also work on-going to resolve questions as to who has access to the servers to update standards committee pages that are not on the server hosting the main web site.

IEEE PRESS

No report was received from Ray Perez.

HISTORY

Dan Hoolihan's History report is covered in his report on planning for the 2007 symposium.

5.0   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 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. Each committee will meet during the symposium week. There will also be the RAC/SACCom luncheon on Monday which is to present their activity to the EMCS Board who is always invited. Several working groups are meeting during the symposium as well, including the working group on Std. 299, Std. P1597, Std. P1642/3, and Std. P1688.

Other standards activity was summarized as follows: P1900 (Interference/coexistence-Software Defined Radio) - Work continues on how to work with PES; P1900.2 on interference is of most interest to the EMCS, P1775 (Powerline Communications equipment EMC testing) work moved to a joint development among EMCS, PES, and ComSoc. MRA agreed to work starting in earnest. More on these topics are contained after agenda item 13 in these minutes. The EMCS standards community is still searching for committee officers, including SETCom Secretary; SACCom Vice-Chair and Secretary. Mr. Heirman noted the SETCom chair is investigating this committee working in cooperation with the EMCS Education and Student Activity Committee. For more information, visit http://standards.ieee.org/resources/glance.html

Mr. Heirman talked about the IEEE's new product offering in "VuSpec" – a CD that includes 40 active and 40 archived IEEE standards related to EMC. The cost is $590. **Don Heirman moved to approve a $25 discount off the IEEE member price of VuSpec to EMC Society members who purchase this on site at EMC 2007.** The motion was seconded and approved. There were two abstaining votes, one being by Lee Hill. The access to VuSpec is found using: https://sbwsweb.ieee.org/ecustomercme_enu/start.swe?SWECmd=GotoView&SWEView=Catalog+View+(eSales)_Standards_IEEE&mem_type=Customer&SWEHo=sbwsweb.ieee.org&SWETS=1192713657

6.0 MEMBER SERVICES REPORT

Dave Staggs presented the report on Member Services. (See VP Member Services Report.)

DISTINGUISHED LECTURER (DL) PROGRAM

Bruce Archambeault presented an idea on Distance Delivery for the Distinguished Lecturer Program (see his presentation) on behalf of Jim Drewniak. The program includes a start using video downloads of DL presentations. The presentations could be filmed at UMR or the DL could have this filmed on site at their location. Pricing is based on the UMR model and their services as outlined in the report. Discussion involved protecting the DL's material; how the information would be taped and conveyed, outreach efforts, etc. Regarding the committee work, the search continues for DL candidates from Regions 1-7.

AWARDS

Bruce Archambeault, Awards Chair, reported that all is on track for this year's awards luncheon that will be held on Thursday, July 12 at the Hawaii Convention Center. There are a few new awards for 2007 approved by TAB, including the Symposium Chair Award, the Hall of Fame Award, and the Sustained Service to the Society Award.

CHAPTER ACTIVITIES

Francesca Maradei noted there are currently 65 chapters, including new chapters Rock River Valley and Galveston Bay/Houston. There were four requests for Angel funds since the start of the new year. She showed the reporting activity of chapters: of the 60 chapters reporting in 2006, ONLY 18 chapters submitted their reports. The US based chapters submitted the fewest number of reports. Region 10 has the highest percentage of chapters who reported on their activity. The availability of web reporting perhaps may increase the reporting activity. Currently, 20 chapters are sending representatives to the Chapter retreat during the symposium. Three chapters have requested Angel funds, including the Hong Kong, UK and Republic of Ireland, and Israel chapters. Additional information on the chapters may be found in the Membership Services report.

FELLOW ASSISTANCE/EVALUATION COMMITTEE

Chair Heyno Garbe is seeking more candidates. For 2008, there are four candidates, two from Asia and two from Europe.

MEMBERSHIP

Colin Brench reported that the EMC Society had 3,940 members at the end of October 2006; this number was 3,904 as of June 16. There were 45 senior members elevated in 2007. There are some issues with the IEEE SAMIEE database reports. They do not directly correlate with membership reports due to the time lag in report preparation.

REGION 8 MEMBERSHIP DEVELOPMENT

Elya Joffe reported on the EMCS co-sponsored events for the balance of 2007, including EMC Zurich in Munich. He would like to initiate outreach activities with chapters in Croatia, Russia, Romania, and the Ukraine in 2008.

REGION 10 MEMBERSHIP DEVELOPMENT

Maria Alehandra Mora Riveros reported that the Colombia chapter was approved on February 1, 2007. Their inauguration meeting was held on April 9 with John Norgard as the speaker. There is an EMC workshop planned for November 13-16 in Columbia.

REGION 10 MEMBERSHIP DEVELOPMENT

Takeo Yoshino reported on a potential new chapter in India. There are 105 EMCS members in India, but they are spread across many different geographic regions. Effort is underway to form a new chapter in Thailand. Possible new chapter locations include the Philippines, Vietnam, Cambodia, Indonesia, Myanmar, Pakistan, Nepal, and North Korea.

SURVEY

Fred Heather is working on a revised survey form for 2007, keeping in mind not to make too many changes and implementing an "on line" version. The results of the surveys conducted in 2004 and 2005 of symposium attendees are posted to the FTP site. Survey results for 2006 are in progress.

PHOTOGRAPHY

Ken Wyatt is the EMCS photographer. He is making plans for the EMC 2007 symposium and assembling a team of photographers to cover the many events at this anniversary symposium. He continues to support the Newsletter with cover photos and images. He will retire from Agilent at the end of 2007 and requests $1,800 per year to continue on as the Society photographer.

EMC SOCIETY GOVERNANCE

Kimball Williams and Mark Montrose reported on the status of revisions to the governance documents. Most have a target revision date of November 2007.

NOMINATIONS

Kimball Williams reported on the slate of nominees for the Board of Directors election ballot. The candidates for a three year term beginning on January 1, 2008 include: Erping Li, Colin Brench, Francesca Maradei, Barry Wallen, Fred Heather, Mark Montrose, and Irina Kasperovich.

7.0   TECHNICAL SERVICES

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

TECHNICAL ACTIVITIES COMMITTEE (TAC)

The Chair of the Technical Advisory Committee (TAC) is Bob Scully. Mr. Scully noted that over 340 papers were received for EMC 2007. The rejection rate was approximately 22%. The report includes a graph showing the number of papers reviewed by each TC. TCs 4 (EMI Control) and 9 (Computational EMC) had the highest number of papers submitted. TC 2 (EMC Measurement) was close behind.

Bruce Archambeault, TAC Secretary, reported on the software for evaluating the papers for the annual symposium. They are exploring options for upgrading the existing software or purchasing new software. This would be software used by the MTT Society as well as an evaluation of improvements to the existing IEEE Conference Express software. Bruce asked for volunteers to help with the evaluation of the paper review software.

REPRESENTATIVE ADVISORY COMMITTEE (RAC)

Fred Heather noted the annual RAC/SACCom luncheon would be held on Monday at the Hawaii Convention Center.

EDUCATION AND STUDENT ACTIVITIES COMMITTEE (ESAC)

The Fundamentals of EMC tutorial this year addresses EMR, ESD, EMI, EMC History, and NARTE. On the University Grant, Tom Jerse advised three proposals were received. Two will be awarded, including $10K to Grand Valley State University in Grand Rapids, MI, for the establishment of a course in EMC and $5K to Huazhong University in Wuhan, China for the development of a senior level class on EMC Principles. Regarding the Student Paper/Design Contests, Jim Whalen and Aziz Inan reported that the student paper winners are Valerio De Santis (Conceetina Buccella/Mauro Feliziani) of the University of L'Aquila, in Poggio Roio, Italy for their paper "Numerical Prediction of SAR and Thermal Elevation in a 0.25 mm 3D Model of the Human Eye Exposed to Handheld Transmitters." On the student design competition, Ahmad Fallah and Harold Rudnick reported that the student winners are Joseph Dalrymple, Dejan Lukajic, and Mark Quayle of the University of Kentucky. The Beranek Student Travel Awards will go to: Robert Powelson, Chris Solisand, and Sourabh Bhalerao from California State University, Chico, Ali Alaeldine of IETR-INSA De Rennes, France, and Nicolas Lacrampe of LAAS-CNRS, France for the design "Efficiency of Embedded On-Chip EMI Protections to CW Harmonic and Fast Pulses wrt Substrate Injection"

8.0 CONFERENCE SERVICES

Barry Wallen presented his report. (See VP Conferences Report.)

Mont Handley of the "Visit Pittsburgh" organization gave a presentation on the city and the David L. Lawrence Convention Center. He discussed hotel guest room rates, convention center and meeting room rates, accessibility via the major airports, city sites, and things for families to do while in town.

Henry Benitez moved to approve the EMC Society being a technical co-sponsor of the 2007 PSES symposium and to approve same support in subsequent years with Drozd's decision to withdraw support in any given year. Kimball Williams seconded the motion. Don Heirman moved to amend the motion to merely read the EMC Society approve being a technical co-sponsor of 2007 PSES symposium. The motion was approved with two no votes and zero abstentions.

EMC 2006 Portland, OR (Chair: Henry Benitez)
The un-audited results of EMC 2006 show a surplus of $338,752. Peter Curtis at the IEEE provided these numbers. The audit paperwork has been submitted and the audit should be completed in 45 days. Delays in completing this within six months of the Symposium date appear to be due to delays at IEEE and not the Symposium committee.

EMC 2007 Honolulu, HI 50th Anniversary Symposium (Chair: Janet O'Neil)

Janet O'Neil reported on the following activity since the last report in March:

Registration: Overall, our registration numbers look good in comparison to EMC 2006. At two weeks before the symposium, we had 426 full member and 172 full nonmember registrations, for a total of 598 full registrations. This compares to 621 full registrations received by the close of EMC 2006 and there are still two weeks to go. EMC 2006 had a total of 438 on site registrations; we are hopeful for half that amount. At the APS symposium earlier this month, they had their usual number of 200+ on site registrations. The composition of the full registrants is approximately 51% US, 24% Europe, 19% Asia, and 6% all others. To date, we have exceeded our budgeted registration income revenue. On overall registration, we have a total of 1,468 pre-registered people, compared to 1,566 pre-registered for Portland two weeks before the symposium. **Exhibits:** We have a total of 160 booths representing 114 exhibiting companies to date. This compares to 216 booths representing 160 companies at EMC 2006. Thus, exhibitor income is way down from last year, by about $100K. But, we budgeted accordingly for 150 booths so we have met our exhibitor income

budget. Our expectation is that registration income will continue to increase and offset the lower exhibitor income that we have seen at past symposiums. In general, the exhibitors are spending quite a bit to send personnel to Hawaii and to support the trade show. Thus, they did not support the patron program. They did support ad sales in the advance and final programs, which came in much higher than budgeted. We have a new barter exhibitor – the China Electrotechnical Society – who gave us good publicity at their EMC Beijing conference. They are interested in developing closer ties with the EMC Society. **Technical Program:** We have a record seven parallel sessions this year for Tuesday through Thursday and five parallel sessions for Sunday and Monday. We received 345 papers (over twice as many as any other symposium); of which 245 were accepted, 45 withdrawn, and 55 rejected. There are eight special sessions with one on EMC history. Four workshops and 14 tutorials were accepted; some 25 were proposed. There will be four poster sessions. All candidates for best paper and best student paper are shown in the final program, as well as all session chairs. The new Global University proved to be very popular. The class size was expanded three times by popular demand from 30 to 40 to a maximum of 60 students in the final class. Currently, there are 56 registered students from all over the world. **Publications:** There were a few problems with the CDROM publication process and printing of the workshop program. Ray Adams worked diligently to get these resolved; Bonnie Brench did a great effort on editing all publications to ensure a minimum number of errors. James Sakamoto continues to do a great job on the website. He is working with the IEEE IT department to see if we can have our website accessed by people living in China. This is important for future symposiums. **Arrangements:** Richard Georgerian worked closely with the VPs to document all meetings and schedule audio-visual and catering. We invited several organizations to hold committee meetings and there is much to keep track of accordingly. **Hotels:** We contracted with a third hotel for EMC 2007. since so many people brought their families to Hawaii. In many cases, people booked multiple rooms. We did not anticipate this and are working with IEEE CMS to have some of this additional hotel commission come back to the Society. **Companions:** We have a record 172 companions to date. Most tours have been expanded or have started a wait list. No tour has been cancelled due to lack of sign ups. **Social Events:** All events promise to be very well attended; a wait list was started for the Friday, July 13 anniversary luncheon and island tour. We have over 800 people wanting to attend and this exceeded our expectations by 50%

EMC 2008 Detroit, MI (Chair: Kimball Williams)

The 2008 Symposium Committee continues to meet via teleconference once each month. They held a major organizational meeting at the Detroit Marriott Renaissance hotel on April 3, 2007 with attendance by most committee members and volunteers, as well as representatives from IEEE CMS, IEEE Exhibits, the conference decorator company, the conference center, and the hotel. The technical program is solidifying and the "Call for Papers" will be released in Hawaii. Plans for social activities are settling down with the emphasis on minimizing cost and maximizing participant satisfaction. Companion options are all planned and just awaiting our attendees to arrive. They are currently within our spending plan.

EMC 2009 Austin, TX (Chair: David Staggs)

Dave Staggs reports IEEE Insurance and Information Schedule forms are complete and submitted to IEEE CMS. The contract between the IEEE and the Austin Convention Center has been signed. A $1,000 deposit has been provided to the Convention Center. This $1,000 is a loan from the EMCS to the Central Texas Chapter. A new contract between IEEE Conference Management Services (CMS) and the Central Texas Chapter of EMCS is being developed. The preliminary budget was completed and presented to the Board of Directors at the November 2006 BoD Meeting. The host hotel contract is signed. The Symposium Chair, Vice Chair, Secretary and Treasurer met with the Hilton Hotel representative in mid June 2007 and reviewed the hotel contract to ensure there were no surprises. There were NO surprises. Hilton always charges $9.95 per day for Internet in their hotels. This hotel has the same wireless anywhere in the hotel, just $9.95 per day during the conference. 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 the deposit made. The symposium attendees will have free wireless access in the convention center and free high-tech electronic signage for all the meeting rooms. The symposium committee is continuing to work on a contract that can be used with IEEE CMS or with an outside conference management firm. We are working with the 2010 symposium committee on this contract, so they both look the same; an al a carte contract. The goal is to complete this contract in the next couple of months.

Current listing of the Symposia Committee:
General Chairman – David Staggs
Vice Chairman – Richard Worley

Secretary – Michael Royer
Treasurer – Patrick Webb
Technical Program – Dr. Michael Foegelle
Exhibits/New Product Presentations – Mark Prchlik
Publicity (Public Relations) – Glen Watkins

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EMC 2010: Fort Lauderdale, FL (Chair: Fred Heather)

No significant activity to report at this time.

EMC 2011: Long Beach, CA (Chair: Ray Adams)

The IEEE CMS has reviewed and approved the Convention Center contract. Since CMS is not the management company of record, the Society will be responsible for the CC payment schedule. This will amount to three payments of $22,000 per year starting in 2008.

EXHIBITOR LIAISON

The exhibitor breakfast has been scheduled for Thursday, July 12 at the Convention Center, from 7:00 am – 8:00 am. The agenda is being coordinated now.

REGIONAL CONFERENCES

Regarding regional conferences in Regions 1-7, Janet O'Neil reported that the following tabletop shows took place to date in 2007:

i) **March 27, 2007**
   Milwaukee, Wisconsin
   With speaker Tom Jerse of The Citadel
   Jim Blaha was principal organizer
   Some 200 people attended

ii) **May 3, 2007**
   Detroit, Michigan
   EMC Fest 2007 – Multiple speakers on filters
   Scott Lytle was principal organizer
   Some 100 people attended

iii) **May 15, 2007**
   Chicago, Illinois
   With multiple speakers on various topics
   Frank Krozel was principal organizer
   Some 100 people attended

iv) **June 12, 2007**
   Tri-Chapter EMC Event from the
   Greater Washington DC, Northern Virginia/Southern
   Maryland, and Baltimore Chapters
   Multiple speakers covered new MIL-STDs related to EMC
   Fred Heather was principal organizer
   Some 40 people attended

Coming up in Dayton, Ohio on September 24, 2007, Janet is organizing a tabletop show for the IEEE Dayton AP/MTT joint chapter in conjunction with AMTA. She has recruited the EMC members in the area to participate in the program, hoping to revitalize the long dormant EMC chapter in the area.

Regarding <u>Region 8</u>, Frank Sabath reported on the following EMC conferences:

2007		
Conference Location	**Dates**	**EMC-S Approval**
VII International Symposium on Electromagnetic Compatibility in Electromagnetic Ecology: St. Petersburg, Russia	26th-29th June	**Technical Co-Sponsorship approved** 3 plenary sessions 34 sessions 182 paper
18th International Zurich Symposium on Electromagnetic Compatibility Munich, Germany	September, 24-28	**Technical Co-Sponsorship approved**
EMC UK, EMC Exhibition & Conference Newbury, UK	October 16-17	Previous conferences Co-Sponsored **I have not see the application, but organizer shows technical co-sponsorship on web page**
EMC COMPO, 6th International Workshop on Electromagnetic Compatibility of Integrated Circuits Torino, Italy	November 28 – 30	Previous conferences Co-Sponsored **I have not see the application, but organizer shows technical co-sponsorship on web page**

2008		
Conference Location	**Dates**	**EMC-S Approval**
EuroEM 2008, EuroElectromagnetics Conference 2008 Lausanne, Switzerland	July 21-25	The organizing committee has submitted a letter of application for Technical Co-Sponsorship. Previous conferences Co-Sponsored Request referred to the TAC for recommendations
EMC Europe 2008 Hamburg, Germany	September 8-12	The organizing committee is writing a letter of application for Technical Co-Sponsorship, which will be submitted to the next BoD meeting. Previous conferences Co-Sponsored Request referred to the TAC for recommendations. **The chair of the organizing committee informed me that he needs the approval not later than the Hawaii BoD meeting**
EMC Wroclaw, 19th International Wroclaw Symposium and Exhibition on EMC Wroclaw, Poland	June 11-13	Previous conferences Co-Sponsored **I have not seen the application, but organizer shows technical co-sponsorship on web page by Polish EMC Chapter**

Region 8 Workshops include Workshop EMC Europe

Electromagnetic Compatibility: Safety, Reliability and Security of Communication and Transportation Systems
June, 14 - 15 2007, Paris (France)

The Workshop EMC Europe is supported by the IEEE France EMC Chapter as well as the IEEE Benelux EMC Chapter.

Regarding <u>Region 9</u>, Janet O'Neil reported that there are no plans for an event for the balance of 2007, and no plans are in place for one in 2008.

SYMPOSIA FINANCE (CHAIR: BOB HOFMANN)

No significant activity since the last report.

SITE SELECTION (CHAIR: DARRYL RAY)

Mike Oliver will make a presentation to the BoD on Saturday July 7 regarding hosting the 2012 EMC International Symposium at Pittsburgh, PA. The Denver chapter has expressed an interest in hosting the 2013 Symposium. The associated forms have been sent to them to facilitate their initial planning.

SYMPOSIUM PUBLICITY (CHAIR: JIM BLAHA)

Jim provided a slide presentation that is attached to this report.

GLOBAL EMC SYMPOSIA CO-SPONSORSHIP (CHAIR: GRAHAM KILSHAW)

Since March 2007, we have received new TCS applications from the following:

EMC Europe 2008, (aka EUROEM 2008), Hamburg, Germany, September 8 to 12, 2008. Chair: Professor Ter Haseborg.

The First Asia pacific EMC Symposium (c/o the 19th EMC Zurich Symposium), May 19 to 28, 2008, Singapore. Chair: Ruediger Vahldieck.

2009 Intl Symposium on EMC, April 14 to 17, 2009, Kyoto, Japan. Chair: Professor Youji Kotsuka.

2007 IEEE Symposium on Product Compliance, Longmont, Colorado. 22- 23 October 2007. Chair: Richard Georgerian.

The TCS Application forms have been forwarded to TAC for the above, and are now awaiting their recommendation.

Also, since this date the following conferences have been approved by TAC:

The Fourth International China Symposium on Electromagnetic Compatibility (EMC'2007/Qingdao, China). October 2007. Chair: Professor Gao You Gang.

The following conferences are still awaiting approval/recommendation for TCS sponsorship.

The International Conference on Antennas, Propagation, and Electromagnetics, Bangkok, Thailand. Feb 5- 9 2008. Chair: Niels Koch.

EMC (Embedded Electromagnetic Compatibility). Rouen France, October 18 – 19 2007. Chair: Gilles Le Calvez.

9.0   EMC SOCIETY 50TH ANNIVERSARY COMMITTEE

Dan Hoolihan presented his report. (See 50th Anniversary Report.) The power point presentation is ready to go and will be shown in the EMC Museum area of the exhibit hall. The historic EMC equipment has been shipped and ready to install in the Museum. Ken Javor will manage this effort. The IEEE History Center, working in conjunction with IEEE Creative Services, completed the 50th anniversary history booklet. The "official" celebration of the anniversary will

take place on Friday, July 13. Dan Hoolihan noted that Bob Scully has requested that NASA fly the 50th anniversary pin on the next Space Shuttle. Six of the original Founders of the EMC Society will be at the symposium. A variety of activities to involve them have been planned.

10.0 OLD/UNFINISHED BUSINESS

TAB Roster: President Drozd noted the following open representative positions:
  Board Activity
  Public Relations (under VP Communications)
  PACE Coordinator (under VP Member Services)
  SACCom
  EIA R1/R2/CISPR I
  IEEE Representative Liaison Positions (RAC)
  IEEE Society on Social Implications of Technology
  Committee on Communications & Information Policy
  Committee on Transportation & Aerospace Policy
  IEEE-USA Energy Policy Committee
  IEEE-USA Medical Technology Policy Committee
  IEEE Sensors Council
  IEEE Systems Council ($5K one-time membership)

Todd Hubing volunteered to be the representative to the Systems Council (Mark Montrose volunteered to help as liaison to this council since he is a member of the AdCom). Kimball Williams, pending his management's approval, volunteered to be the EMCS representative for the Committee on Transportation and Aerospace Policy.

11.0 NEW BUSINESS

2007/2008 Meetings – The following meeting dates and locations were confirmed: November 8-10, 2007 in Fort Lauderdale, Florida. Elya Joffe proposed scheduling the 2008 Board meetings for March 13-15 in Salt Lake City, May 16-17 in Greenville, SC, August 16 Excom, August 17 Board, and August 21 Board dinner meeting in Detroit in conjunction with the symposium, and November in Mexico City (dates TBD)

12.0 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.

13.0 ADJOURNMENT

There being no further business, the meeting adjourned at 5:10 pm.

Continuation of the Board meeting – 6:40 pm on Thursday, July 12, 2007

Board members present included: B. Archambeault, H. Benitez, C. Brench, A. Drozd, R. Ford, B. Goldblum, F. Heather, D. Heirman, L. Hill, D. Hoolihan, T. Hubing, E. Joffe, F. Maradei, M. Montrose, J. O'Neil, J. Norgard, G. Pettit, R. Scully, D. Staggs, D. Sweeney, R. Wallen, K. Williams, and T. Yoshino. W. Kesselman was absent.

Guests included: R. Davis, R. Nelson, H.R. Hofmann, J. Ramie, F. Sabath, V. Mancino, R. Showers, A. Zimbalatti, J. LaSalle, and D. Skouby.

Andy Drozd presented the agenda for the evening (see updated agenda). Bob Hofmann asked that a discussion of the awards luncheon process be added to the agenda.

Communication Services - Ghery Pettit had nothing further to report since the July 7 meeting.

Standards – Don Heirman reviewed the activity of standards during the symposium week. The Standards Development Committee (SDCom) is chaired by Steve Berger with Ed Hare as the new secretary. There were two meetings that reviewed the major activity of the committee. The following is the list of standards reviewed along with the short status:

- EM site survey (Std. 473): New chair Vilitas - About 80 % completed
- RF absorber evaluation (Std. 1128): Reaffirmation completed
- VDT emissions (Std. 1140): Reaffirmation completed
- Gasket characterization (Std. 1302): Status being assessed
- Probe calibration (Std. 1309 amd): Action paused since WG chair resigned
- RF filter performance (P1560): Standard is current
- Computational EM (P1597.1): Ballot is expected by year end
- Intentional EMI to computers (1642): Ballot delayed
- Software Defined Radio Conformity (P1900.2): Activity increasing
- Line replaceable module (P1688): Readying first draft
- TV emission measurements (Std. 187): Needs reaffirmation or revision
- Shielding effectiveness (Std. 299.1): Two meetings held in Hawaii
- Impulse bandwidth (Std. 376): Out of date and will probably be withdrawn
- ISM measurements (Std. 139): Reaffirmation completed

Mr. Heirman reported on activity related to P1900 (Interference/coexistence-SDR). This is now Standards Coordinating Committee 41 (Dynamic Spectrum Access Networks) with Steve Berger as Chair. The focus is on improved use of spectrum. New techniques and methods of dynamic spectrum access require managing interference, coordination of wireless technologies, and include network management and information sharing. On P1775 (Powerline Communications Equipment EMC testing), this work is a joint effort with the EMC, PES, and Communication Societies. A MOU has been signed on how to approve the standard and is ready for ballot among these three socieities. The joint working group is comprised of four appointed representatives from each society. If 60% of the working group approves the standard as ready for sponsor ballot, it will be balloted. The voting is to be completed by July 28, 2007. The standard will be balloted soon thereafter.

The standards education and training committee (SETCom) also met during the symposium week in Hawaii. The secretary, Jinliang He, chaired the meeting in the absence of chair Qiubo Ye. SETCom sponsored the session on "Experiences in Crafting EMC Standards." The goals of SETCom are the following: 1. Prepare and conduct seminars for working groups on the development, coordination, balloting, and support of IEEE EMC standards and 2. Enhance the awareness of IEEE EMC standards throughout the EMC community and demonstrate how these standards can be effectively applied to the development, production, and use of equipment and systems.

Member Services – Dave Staggs reported on member activity during the symposium. A discussion was held about the awards luncheon and trying to stay on schedule. Logistics were discussed to have shorter speeches by Board members, having the awardees sit near the stage and/or gather near the stage prior to the award being announced, etc. in order to ensure the awards luncheon ended on time.

Technical Services – John Norgard discussed activity during the symposium week. He introduced Bob Nelson, chair of the Education and Student Activities Committee. This year, ESAC had a membership booth for the first time at the symposium. He talked about their considerable activity during the symposium. Don Heirman suggested adding a GOLD component to the symposium. All agreed to pursue this plan.

Bob Scully presented an outline of the plan to review the software for paper reviews at EMC 2008. He showed the rationale for reviewing papers and named the team involved in evaluating this software, including Bruce Archambeault (chair of task force), Don Heirman, Elya Joffe, Derick Skouby, Mark Steffka, and Bill Strauss. The task force will also evaluate and document the role of the symposium technical program chair(s) and their relationship with TAC. He reviewed the mission statement of the task force.

Bob Scully moved to adopt TC-11 for Nanotechnology with a budget of $500 per year. The motion was seconded and approved.

Don Heirman moved to approve the listing of the TAC officers as shown on the Technical Committee chart. The motion was seconded and approved. Dan Hoolihan questioned the validity of the motion. Don Heirman moved to withdraw the motion. This was seconded and approved.

John Norgard moved to accept the slate of officers as presented by TAC chair Bob Scully. The motion was seconded and approved.

John Norgard advised that the special session on waveform diversity was well attended. He plans to organize another special session on waveform diversity for presentation during EMC 2008. If this session is also well received, he will consider proposing a new TC-12 on waveform diversity next year.

Barry Wallen discussed the EMC 2007 symposium. There were a total of 1,727 registrations entered, 686 of which were full member/non member registrations. 160 booth spaces were occupied.

Dan Hoolihan talked about the anniversary activities during the symposium and for the Friday anniversary celebration. **Dan Hoolihan moved to make 50 DVD copies of the anniversary power point presentation. The motion was seconded and approved. Dan Hoolihan moved to distribute 60 copies of a DVD version of the history show for chapters at a cost not to exceed $1,000. The motion was seconded. Bob Scully moved to amend the motion to make 30 copies of the DVD version of the anniversary show at a cost not to exceed $1,000. The motion was seconded and approved**. Lee Hill abstained from voting. Mr. Hoolihan summarized the EMC Museum activity and acknowledged the work Ken Javor did for the EMC Museum.

NEW BUSINESS

2008 Meetings: Elya Joffe noted that the March meeting would be held in Greenville, the May meeting in Salt Lake City, and the November meeting in Mexico City.

Chapter Activity: Francesca Maradei reviewed highlights of the Chapter retreat and new ideas to address chapter reporting issues.

Lee Hill moved to provide a detailed budget breakdown of Board expenses and income for presentation at the November Board meeting. It was suggested by the President that this be handled as an action item by the President, in cooperation with the Treasurer and Assistant Treasurer for follow up. It was agreed that this information would be prepared and posted strictly for Board access at least on a quarterly basis.

ADJOURNMENT

There being no further business, the meeting adjourned at 9:30 pm. The next series of meetings will be held in Fort Lauderdale, Florida over November 8-10 as noted above.

Submitted by:

Janet O'Neil
Secretary, EMC Society Board of Directors