

# EMC Society Board of Directors Meeting

*The Hyatt Hotel  
Long Beach, California  
November 21, 2008*

## THE PRESIDENT'S OPENING REMARKS/CONSENT AGENDA

President Joffe called the meeting to order at 9:00 am. A round of introductions was made. Board members present included B. Archambeault, H. Benitez, C. Brench, R. Davis, A. Drozd, R. Ford, F. Heather, D. Hoolihan, T. Hubing, E. Joffe, F. Maradei, M. Montrose, J. Norgard, J. O'Neil, G. Pettit, R. Scully, D. Staggs, D. Sweeney, and T. Yoshino. Board members absent included R. Goldblum, D. Heirman, R. Jost, W. Kesselman (participated via speaker phone) and R. Wallen. Guests present included J. LaSalle and K. Williams. President Joffe reviewed Board meeting protocol, the IEEE code of ethics, and upcoming activities. Under the IEEE TAB report, he talked about handling "no show" presenters at the annual IEEE EMC symposium, Society membership, and the Technology Discovery & Navigation Project (formerly called the Technology Road Map initiative). TAB approved a policy whereby submitted papers that are not presented at an IEEE symposium are removed from the conference CD of papers submitted for the Xplore program. Related to Society membership, TAB suggests Society membership MUST be marketed as a toolkit offering both tangible resources as well as the intangible benefits. Member networking at conferences is a crucial activity that should be marketed. On the Technology Discovery & Navigation Project, the goal of this project is to bring together collective IEEE knowledge to create opportunities for growth and link IEEE science/engineering based work to a shared "market language." This will enable industry, government, and potential new members to view their path through IEEE's knowledge/activities. The consent agenda was presented for review. It includes: Approval of August 2008 meeting agenda, approval of August 2008 Board meeting minutes, approval of Treasurer's report and approval of



*Bob Scully (left) of NASA and Bob Davis of Lockheed Martin enjoyed having lunch together during the Board meeting.*

temporary employment contracts for the Newsletter Editor, Newsletter Technical Editor and Society Administrator. Under Technical Co-Sponsorship, approval is requested of the CEEM 2009 conference in Xi'an, China and APEMC 2010 in Beijing, China. The Board approved the consent agenda.

## GLOBAL OUTREACH ACTIVITIES

Mr. Joffe gave a presentation on the outreach events at recent EMC conferences, including EMC Europe 2008 in Hamburg, SoftCOM 2008 in Croatia, and the Sections Congress in Quebec. He gave the keynote address at EMC Europe 2008. He also showed information on the South America chapters outreach in Manizales, Colombia in



*The Board prepares for business at its November meeting in Long Beach, California. Francesca Maradei is all smiles after being designated as the Society's President-elect.*

PHOTOS BY JANET O'NEIL

October 2008 and Buenos Aeries, Argentina in November 2008. Next week, he will attend INCEMIC in Bangalore, India and represent the EMC Society. Consideration for outreach to the African states was reviewed. John Norgard also showed slides of his outreach trip to Lithuania. He was an invited speaker at the 18th Annual Electromagnetic Disturbances conference which was technically co-sponsored by the EMC Society. Some 100 people attended and progress was made with the formation of a new joint chapter in Lithuania, possibly with Poland, to start.

## PAST PRESIDENT AND FINANCE COMMITTEE REPORT

Past President Andy Drozd presented his report. First, he presented the results of the recent election to the Board. Those newly elected include Ghery Pettit, Kimball Williams, John Norgard, Dick Ford, Don Heirman, and Henry Benitez. There were 13 candidates and the election was very competitive. There was a 15% return on ballots this year. He thanked the nominations committee for their efforts. Regarding the Finance Committee report, committee members include the Board officers and the current President. 2008 EMC-S Operations for the period ending October 31, 2008 showed a deficit of \$71,600. Projecting that the 2008 Symposium surplus will be "on target", a year-end ops surplus (\$93,300) was forecast during a 3Q review with IEEE. "Market fluctuations" are anticipated to have a significant negative impact on year-end closing financials. The Board approved a revision to the EMC-S financial policy to increase the subsidy for Society Director or Officer Inter-regional Travel. The Board also approved updating the EMC-S Financial Policy to include a provisional subsidy for Society volunteers who travel on behalf of the Society in support of inter-regional outreach, membership and chapter development, including support of special representation or delegation activities. Mr. Drozd closed his report by summarizing the Financial Committee's work related to the long range plan and itemizing Society expenses for audio-visual, electrical and hotel catering during EMC 2008 in Detroit.



Also enjoying the lunch break are Elya Joffe of KTM Project Engineering, Fred Heatber of the Navy Pax River, and Colin Brench (from left) of the Southwest Research Institute.

## ELECTION OF BOARD OFFICERS

Nominations Chair Andy Drozd presented the slates for each officer position on the Board. As a result of the elections, Ms. Maradei was designated the President-elect. Bob Scully was elected VP for Technical Services. Todd Hubing was elected VP for Communications. As a result of the ballot vote, Ghery Pettit was elected VP for Conferences. John Norgard was elected VP for Standards. Bob Davis was elected VP of Member Services. John LaSalle was elected Treasurer. Janet O'Neil was elected Secretary.

## COMMUNICATION SERVICES

Ghery Pettit, Vice-President for Communication Services, presented his report. Newsletter Editor Janet O'Neil reported that the Fall 2008 issue at 112 pages provides extended coverage of the EMC 2008 Symposium. The annual awards program is covered in detail with the traditional reprint of the actual awards lunch program. There are two very diverse papers. The first paper is titled "Experience with the RMS-Average detector" by Jens Medler from Rohde & Schwarz (Munich, Germany). The paper addresses a new weighting detector introduced by a recent amendment to the CISPR 16-1-1 publication. This new weighting detector (identified as RMS-Average detector) is a combination of the RMS and Average function of EMI receivers, and was specified to better consider the impact of pulsed interferences on today's dominant digital radio services. The second paper is entitled "A RF-Insensitive Electro-Explosive Device with 500V Standoff Capability," by Thomas A. Baginski and Keith A. Thomas from Auburn University. The authors present a monolithic electro-explosive device which is capable of standing off a high potential for extended periods of time. This standoff capability ensures the device remains unaffected by exposure to harsh electromagnetic environments. In addition to the standard articles, and the symposium specific articles, the bylaws change notice and list of newly elected Board members for 2009-2011 are included. Financially, final numbers are not yet available on the cost to produce and mail the Fall 2008



The Board's annual dinner is a great opportunity for Board members and spouses to celebrate a successful year. Barbara Staggs, Marilyn Sweeney, Sue and Bruce Archambeault (from left) visited upon arrival.

issue at this time. Details on expenses and revenue will be provided at the next Board meeting. For the Summer 2008 issue, the 88-page issue cost \$21,668 to compose, print and mail. The Summer 2008 issue featured 11.5 pages of ads from 15 companies. The net revenue to the EMC Society for these ads was \$10,416. Ghery Pettit, Mark Montrose and Ms. O'Neil are working with IEEE to review the pros and cons of having the EMC Newsletter become a formal IEEE Magazine. The main advantage of becoming a magazine is that the publication can now be on Xplore so it's easy to access, search for material, etc. However, currently changes are underway at IEEE HQ in the area of publications with much production and layout work being outsourced to companies outside the US. Mr. Pettit recommends holding off making any decisions on changing the Newsletter to a Magazine until the impact of these changes is evaluated. Mr. Pettit then presented the report of Perry Wilson, Editor-in-Chief of the Transactions on EMC. There are 20 Associate Editors of the Transactions of the IEEE EMC Society. The Editor-in-Chief, Perry Wilson, would like to recognize them at an annual luncheon in conjunction with the EMC symposium. Dr. Wilson reported that as of Nov. 6, 2008, 247 papers have been submitted in 2008. This rate projects a total of 292 submissions for the full year, in line with last year (283). Month-by-month statistics are shown in Table 1 going back to 2003 (thanks to Prof. Canavero for the 2003-2006 data). The submission rate had been trending up, nearly doubling since 2002; however, the submission rate appears to be now leveling off somewhat.

**Table 1. New Paper Submissions**

	2003	2004	2005	2006	2007	2008
January	11	10	19	18	27	25
February	13	20	11	79 (*)	11	26
March	13	12	16	14	21	20
April	13	14	16	17	20	18
May	19	20	14	20	31	16
June	11	23	21	21	23	34
July	29	15	23	15	31	24
August	15	16	11	28	23	21
September	19	17	17	20	16	27
October	16	17	11	22	35	28
November	9	9	16	26	26	8(***)
December	10	14	12	21	19	
Total	178	187	187	301 (**)	283	292(****)

(\*) 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 Nov. 11, 2008  
 (\*\*\*\*) projected at current rate

The May and August 2008 issues were mailed in a timely manner. The November issue is scheduled to mail on time. There is currently no backlog of unpublished papers. The page count for 2008 will be around 1084 (300 estimate for Nov. issue), slightly above budget (1016). The Special Issue on Aerospace EMC with R. Perez and Jim Lukash as Guest Editors appeared in August along with a regular issue. For May 2009, Prof. Vladimir Rakov (U. Florida) and Prof. F. Rachidi (TU Lausanne) are co-editing a Special Issue on Lightning. About 2/3 of the invited papers have been submitted and are in review. For 2010, Prof. Erping Li (U. Singapore) and Joungho Kim (KAIST, South Korea) have proposed a special issue on PCB Packaging EMC. EMC in electronics design is a strong area of



*Board members (from left) Takeo Yoshino, Don Sweeney of DLS Electronic Systems, Dave Staggs and Dick Ford of NRL also celebrated during the annual dinner.*

contribution from Asia, and China in particular. This would be a good opportunity to highlight research in this area. They are finalizing their proposal. For 2011, Dr. Wilson has received a tentative proposal from Prof. Agarwal (Indian Institute of Technology-Bombay, India) for a Special Issue on power electronics. Additionally, Elya Joffe has received interest from researchers in Region 9 on the same topic. Dr. Wilson closed his report by noting he has 19 Associate Editors (AEs): three are from Regions 1-7, 12 are from Region 8, and four are from Region 10. He has invited an AE from Japan, Prof. Wada (U. Kyoto). Long term, an Associate Editor from Region 9 (Central and South America) should be considered. Regarding Chapter Publicity, Mr. Pettit noted that the chapters outside of the USA are not submitting reports as often or as consistently as they did 2-3 years ago. Are these chapters getting the notice to send in materials for the Chapter Chatter column? Mr. Pettit requested Board members to please spread the word as they travel to various chapters to encourage sending Chapter Chatter inputs to Todd Robinson (todd.robinson@ckc.com). Mr. Robinson also requested each Board member to contribute a



*Todd Hubing (far left) of Clemson University and John Norgard (far right) of NASA discussed planning for the 2011 IEEE International Symposium on EMC with Chair Ray Adams of Boeing and his lovely wife Sylvia.*

funny story for the lead in article to Chapter Chatter. Mr. Pettit advised in his report that he continues to work with Shannon Archambeault to resolve broken links and update content on the web site. The Board approved renewing the web maintenance contract with Shannon Archambeault for 2009. Scope of work to include: 1) Maintaining site with updates to content as required. This work includes all the EMC-S sites, including the main site and the sites for SDCOM and SACCOM. 2) Updating site look/feel to be more consistent with present IEEE templates. Regarding the History Committee, Dan Hoolihan reported news about the original petitioners to the PGRFI. A small search team was systematically going through some historical materials gleaned from Leonard Thomas' basement several months ago. In a faded manila folder marked "EMC-S History Committee" a hand-written list of people was found which he believes is the list of the "Original Petitioners to the Institute of Radio Engineers." The petitions signed by these individuals asked that a Professional Group on Radio Frequency Interference be formed. The list and a more detailed story on how the list was found will be published in the next edition of the EMC-S Newsletter. Every Newsletter issue now has a special section on EMC-S History. The EMC Society contributed a first Summary of the History of the EMC Society to the IEEE Global History Network. The contribution was submitted as part of the Sections Congress on 19 September 2008 in Quebec City. The URL for the IEEE Global History Network is <http://www.ieeeahn.org/wiki>. It has been suggested that an EMC-S Museum be developed and that it be mobile so it could be moved from one symposium site to another. It could be an RV type trailer, or a trailer pulled by a tractor, or a large van or some other vehicle. Additional ideas are being solicited as well as financial contributions to fund the EMC-S Museum. There continues to be a strong interest on the part of our membership to save and review old EMC test equipment.

## STANDARDS SERVICES

Don Heirman, Vice-President for Standards, was not present for his report. Andy Drozd reported for Mr. Heirman. Standards activity covers three major areas: The Standards



*Andy Drozd (left) of ANDRO Computational Solutions welcomed guest Kermit Phipps of EPRI to the dinner. Mr. Phipps was in town to attend the Standards Committee meetings.*

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 Erik Bergstrom and Dave Guzman is secretary. The SDCOM chair is Andy Drozd, Colin Brench is vice chairman and Ed Hare is secretary. Mr. Drozd reported that SDCOM met before the Board meeting. There are 15 members of SDCOM working on 17 active standards projects. A brief summary of the status of these projects was presented in his report. Mr. Drozd presented an update on the status of P1775 (Powerline Communications Equipment EMC Testing) – a joint standard being developed among the EMC, Power and Energy (PES) and Communications Societies. In his last report, Mr. Heirman noted that the EMC Society is being maligned by members of the PES working group in how they are making statements of the EMC-S participation on this standard. Andy Drozd, as a member of the IEEE Standards Board, brought this issue to the attention of the Standards Board. Elya Joffe contacted the President of PES to inform her of the problem. The expectation is that PES will act to improve the situation. Currently the P1775 working group is still addressing the comments of the Sponsors' Panel. Annex F was proposed as informative description of EMC identification and resolution. SDCOM advised the EMC-S representatives on the Panel that the standard shall contain normative EMC criteria, but that diagnostic and corrective information should be informative. The vice chair position on the working group P1775 remains open. Mr. Drozd closed the report with a summary of how the Standards Committees are addressing the Society's long range plan, especially as related to emerging technologies.

## MEMBER SERVICES

Dave Staggs, Vice-President for Member Services, presented his report. Mr. Staggs noted that IEEE membership as of August 14, 2008 is 350,083 members – this is a 0.8% decrease from last year. Regarding EMC Society membership, this total is up 0.3% from last year. As of August 14,



*Board members Mark Montrose (left) of Montrose Compliance Services and Henry Benitez (center) of Electromagnetic Investigations join the friendly Jackie Benitez during the social hour.*

2008, there are 4,031 members in the EMC Society. Unfortunately, no senior member elevations took place since the May report. In the interest of time, only a few reports from Member Services were given as follows. The Board approved providing (at no cost) up to 25 Society Student Memberships per year for two years for Region 9 usage. Regarding Awards, Mr. Staggs announced that Lee Hill is taking over for Bruce Archambeault as chair of the awards program. All processes and procedures are documented and up to date. Dr. Archambeault has been told that the proposal to create a new award "Special Service to the Society" has been approved by TABARC and is on the agenda for the November TAB meeting for final approval. Bob Davis then reported on the "Completed Careers" committee activity. Articles have been placed on a regular basis in the EMC Newsletter. The Board approved providing the families of those members that have passed away with three copies of the Newsletter issue that honors the deceased. Next, Bruce Archambeault reported on the DL program. This includes a detailed review of the expenses for the program and the video DL product offering. He thanked Jun Fan for his excellent work in putting the video DL program together. The Board approved including the Video DL Program as an addition to the current EMC-S Distinguished Lecturer Program. Andy Drozd then reported on nominations and possible policy changes regarding reelection to the Board. The Board also discussed the process for appointment and term of service of Technical Council representatives. Todd Hubing advised that Jim Knighten will take over as the new chair of the Fellows Nomination and Support committee. Fred Heather provided a detailed report on the results of the 69 returned exhibitor surveys from the EMC 2008 Symposium in Detroit. Regarding Region 10, Takeo Yoshino advised he will attend the APEMC conference in Hong Kong over December 16-19, 2008 and staff the IEEE EMC Society membership booth. He will distribute IEEE membership recruitment material and attempt to sign up new members.

## CONFERENCE SERVICES

Dave Staggs presented this report in the absence of Barry Wallen, Vice-President of Conferences. The Board approved a requirement that all participants (exhibitors and attendees) desiring to offer events which could compete with conference offered events, both technical and social, receive written approval from the conference organizing committee for said events. Regarding a policy on Symposium "no shows", i.e. authors whose papers are accepted, but they do not attend the symposium to personally present the paper, the Board approved that the Symposium Committee must notify the VP of Conferences within 14 days after the end of the symposium event of any 'No Shows'. The VP of Conferences will pass these 'No Shows' to IEEE and their papers will be withdrawn from IEEE Xplore. Authors will be notified of this policy in advance of final manuscript submission.

## TECHNICAL SERVICES

John Norgard, Vice President for Technical Services, presented his report. The Board approved the EMC Society's



*The day after the Board meeting, Ray and Sylvia Adams took a one hour ferry to Catalina Island which is located just off the coast of Long Beach. They have exciting things in store for EMC 2011 in Long Beach!*

participation in the IEEE Expert Now Program and appointing the Education and Student Activities Committee to develop a professional quality video on EMC fundamentals (or equivalent) to explain EMC concepts and their applications to EMI problems. Technical Activities (TAC) Chair Bob Scully reported that the committee is busy working on the paper submittal for EMC 2009. Modifications to the electronic paper review system were made in advance to facilitate the second round of reviews and to correct problems that arose last year during paper reviews for EMC 2008. A tagging process has been implemented, but only four technical committees (TC) have responded to this process. Mr. Scully and Bruce Archambeault (TAC Vice Chair) are looking at a possible reorganization of the TC structure and the addition of a possible new TC on power quality. TAC has reviewed several applications for technical co-sponsorship of global EMC conferences. A list of these and the status of each was presented for Board review. Kimball Williams next gave a short report on the Technology Management Council (TMC). The IEEE TMC provides information and services to IEEE members and the worldwide audience of practitioners and researchers engaged in the profession of engineering, technology, and innovation management. The next meetings of the TMC are scheduled for January 30-February 1 in Phoenix and July 24-26 in San Diego. Fred Heather discussed evaluation of the RAC/SACCom committee interface. He suggested an implementation plan to merge the committees, but consensus was not reached.

## STRATEGIC AND LONG RANGE PLANNING

Elya Joffe presented an update on the LRP. His report includes a breakdown of phases for the LRP, including: Phase I - Main-

tain and Update LRP Matrix; Phase II - Engage in Strategic Planning Brainstorming Session; and Phase III - Metrics for Evaluating Current Performance. Prior to the March 2009 Board meeting, President Joffe plans to summarize the outcomes of the November 2008 meeting and work with the VPs to put the LRP items into action. There will be a full day LRP Session on March 21, 2009 in Phoenix following the Board meeting. At that time, the Board will re-review the matrix for relevance and continue Strategic Planning.

## **IEEE 125th ANNIVERSARY**

Dan Hoolihan reported on plans to celebrate the 125th anniversary of the IEEE. The IEEE will celebrate the 125th anniversary of the founding of the IEEE on May 21, 2009 at the regularly scheduled EMC Society Board of Directors meeting in Philadelphia, Pennsylvania. It will be coordinated with the local EMC chapter via Graham Kilshaw and Finbarr O'Connor, the Philadelphia Section, and the IEEE "corporate" authorities. EMC Society Founder Ralph Showers has been invited to be the honorary chair of the celebration.

## **OLD/UNFINISHED BUSINESS**

*The following items were discussed under old business:*

**Report from IT Planning Committee** – Fred Heather reported on the Wednesday, Nov 19 IT committee meeting. Twelve members attended. The committee discussed BOD Data Storage (an Internet accessible location that BOD members can access, store, and retrieve documents created from the business of the Board meetings), Website Hosting (to determine the hosting of the EMC-S website, the EMC symposium website, TC websites, DL video presentations, membership profile, access control, and other websites as needed for business of the EMC-S), Website Maintenance (to determine how to best support maintenance of various websites needed for the EMC-S), Access Control (to determine what access controls are needed for websites, storage sites, webinars and other web accessible information), a Job Site (to provide on the EMC-S site a listing of EMC positions available and people looking for positions) and an EMC-S Bulletin Board (to provide a site to freely exchange information, and ideas, in a virtual community).

**Officer and BoD Job Descriptions/Duties** – Kimball Williams will contact each officer of the Board to obtain information for "job descriptions".

**Committee Vacancies/Appointments** – President Joffe showed a list of the EMC-S vacant positions, including: Society on Social Implications of Technology, Committee on Communications & Information Policy, Committee on Transportation & Aerospace Policy, IEEE-USA Energy Policy Committee and the IEEE-USA Medical Technology Policy Committee. Anyone interested in serving in these positions should let Mr. Joffe know.

**Schedule for 2009 Board Meetings:** President Joffe presented the Board meeting schedule for the balance of 2008 and for 2009. These meeting dates and locations are posted to the EMC-S website and in the Calendar section of every Newsletter.

## **NEW BUSINESS**

*The following item was discussed under new business:*

**Funding for the CISPR 2010 Meeting:** Dan Hoolihan discussed the annual CISPR meeting. When this meeting is held outside the US, governments of the hosting countries pay for the meeting costs. When the meeting is held in the US, the US government does not pay for the meeting costs. Ten years ago when the CISPR meeting was held in San Diego, the EMC Society Board contributed financially to hosting the meeting. In October 2010, the CISPR meetings are proposed to be located in Seattle, WA, USA. The Board approved funding \$5,000 towards sponsoring the 2010 CISPR meeting in Seattle.

## **SUMMARY OF FINANCIAL IMPACT OF APPROVED MOTIONS**

Andy Drozd presented a summary of the net financial impact of the motions presented during the meeting. The total budgeted for these motions was \$30,000; the actual amount approved in motions passed at the meeting was \$27,285.

There being no further business, the meeting adjourned at 6:15 pm.

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