

# The EMC Society Board of Directors Meeting

*The Hilton Hawaiian Village Hotel  
Honolulu, Hawaii  
July 7 and 12, 2007*

## THE PRESIDENT'S OPENING REMARKS

President Drozd called the meeting to order at 8:30 am. A round of introductions was made. 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. Absent was member W. Kesselman. Guests present included M. Handley, R. Hofmann, G. Kilshaw, M. Oliver and F. Sabbath. President Drozd reviewed activity since the last meeting. The topics included review of outreach visits to the new EMC 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). The March 2007 Board minutes were approved and will be posted to the EMC Society website.

## FINANCE COMMITTEE REPORT

Kimball Williams presented the finance committee report. He presented recommendations to diversify EMCS budgetary accounting to add line items to its 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 its 'traditional' linkages, and seek closer 'personal' contact and greater Society involvement with current members. President Drozd reviewed a budget metric report provided by Assistant Treasurer John LaSalle. This included a review of membership statistics, budget impact from meetings/conferences, the distinguished lecturer program, and travel expenses. 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. 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. 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.

## PRESIDENT-ELECT REPORT

Elya Joffe talked about the long range planning session in Red Bank, NJ. He requested volunteers who are willing to travel to help with the chapter outreach efforts. He suggested holding 1-2 telecons 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.

## COMMUNICATION SERVICES

Ghery Pettit, Vice-President for Communication Services, presented his report. One of Mr. Pettit's action items from the past Board meeting was to publish the past symposium best papers in the *IEEE Transactions on EMC*. After discussion with Perry Wilson, the editor of the *IEEE 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. Janet O'Neil, Newsletter Editor, then reported on activity since the last Board meeting. 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 sympo-



PHOTO BY KEN WYATT

*EMC Society President Andy Drozd of Andro Computational Solutions prepares to call the Board meeting to order at the Hilton Hawaiian Village hotel.*



*Board members ready their computers for the start of the Board meeting, including (from top left), Kimball Williams of Denso International America, guest Bob Hofmann of Hofmann EMC Engineering, Henry Benitez of ElectroMagnetic Investigations, Bob Scully of NASA, Elya Joffe of KTM Project Engineering, and John Norgard of the University of Colorado – Colorado Springs.*

sium activity and the abstracts of the technical papers. 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. Ms. O'Neil attended the IEEE Panel of Editors meeting held on April 27 and 28 in Chicago. Perry Wilson, Editor, *IEEE Transactions on EMC*, was there as well. Dr. Wilson suggested including the table of contents for the *IEEE Transactions on EMC* special 50th anniversary issue in the EMC Newsletter. He 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. Next, Perry Wilson, *IEEE Transactions on EMC* 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. Good portions 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 from China. Of the five Region nine submissions, three 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. 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 (exper-



*The lunch hour provided social time for Board members to reconnect since the last meeting. Dining together were (from left) Mark Montrose of Montrose Compliance Services, Henry Benitez, guest Frank Sabath of WIS, Elya Joffe, and Dick Ford.*



tise: 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. Regarding the EMCS website, 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.

## STANDARDS SERVICES

Don Heirman, Vice-President for Standards, presented his report. Standards activity covers three major areas: The Standards Education and Training Committee (SETCom), the Standards Advisory and Coordination Committee (SACCom), and the Standards Development Committee (SDCom). The SETCom chair is Qiubo Ye and the vice-chair is Professor Johan Catrysse. The SACCom Chair is Dave Guzman. The SDCom continues to be chaired by Stephen Berger with Ed Hare as the secretary. Each committee will meet during the symposium week. 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. 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. The Board approved a \$25 discount off the IEEE member price of VuSpec to EMC Society members who purchase this on site at EMC 2007.

## MEMBER SERVICES REPORT

Dave Staggs presented the report on Member Services. Regarding the Distinguished Lecturer (DL) program, Bruce Archambeault presented an idea on Distance Delivery for the Distinguished Lecturer Program 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. Next, Bruce Archambeault, Awards Chair, reported that all is on



*Don Heirman of Don HEIRMAN Consultants, EMCS Vice-President for Standards, visited with IEEE President Leah Jamieson following her keynote address at the EMC 2007 Symposium.*

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. Regarding Chapters, Chapter Coordinator Francesca Maradei noted there are currently 65 chapters, including new chapters Rock River Valley and Galveston Bay/Houston. 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. Next, Mr. Staggs reported that Heyno Garbe, Chair of the Fellow Assistance/Evaluation Committee, is seeking more candidates. For 2008, there are four candidates, two from Asia and two from Europe. Next, Membership Chair 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. Regarding 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. Regarding Region 9 membership development, Maria Alejandra 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. Regarding Region 10 membership development, Takeo Yoshino reported on a potential new chapter in India.

PHOTO BY DICK FORD



*Gbery Pettit (in green shirt) of Intel, EMCS Vice-President for Communications, staffed the registration desk during the morning rush at the EMC 2007 Symposium.*

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 Chair Fred Heather then reported he is working on a revised survey form for 2007, keeping in mind not to make too many changes and implementing an "on line" version. Nominations Chair 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. Mr. Williams also noted that he and Mark Montrose are addressing revisions to the governance documents. Most have a target revision date of November 2007. Mr. Staggs closed his report noting that Ken Wyatt, the EMCS photographer, is making plans for the EMC 2007 symposium and assembling a team of photographers to cover the many events at this anniversary symposium. He also continues to support the Newsletter with cover photos and images.



*Barry Wallen (left) of Andro Computational Solutions receives an award for his service to the EMC Society Board of Directors for 2004-2006.*

## TECHNICAL SERVICES

John Norgard, Vice-President for Technical Services, presented his report. He introduced the Chair of the Technical Advisory Committee (TAC), Bob Scully. Mr. Scully noted that over 340 papers were received for EMC 2007. The rejection rate was approximately 22%. The report included 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. Dr. Archambeault asked for volunteers to help with the evaluation of the paper review software. Regarding the Education and Student Activities Committee, Professor Norgard reported for Chair Bob Nelson that 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 (Concettina 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 Solis and Sourabh Bhalariao 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."

## CONFERENCE SERVICES

Barry Wallen, Vice-President for Conferences, presented his report. He introduced Mont Handley of the "Visit Pittsburgh" organization who 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. The Board approved the EMC Society being a technical co-sponsor of the 2007 PSES symposium. Next, the status of upcoming EMCS symposiums was reviewed. Regarding EMC 2006 Portland, OR, 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. Regarding EMC 2007 Honolulu, HI 50th Anniversary Symposium, Chair Janet O'Neil reported on the following activity since the last report in March: Overall, registration numbers look good in comparison to EMC 2006. At two weeks before the symposium, there are 426 full member and 172 full nonmember registrations, for a total of 598 full registrations. The composition of the full registrants is approximately 51% US, 24% Europe, 19% Asia, and 6% all others. There are a total of 160 booths representing 114 exhibiting companies to date. On the technical program, there is a record seven parallel sessions this year for Tuesday through Thursday and five parallel sessions for Sunday and Monday. 345 papers were received (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. Regarding 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 the symposium website may be accessed by people living in China. This is important for future symposiums. On arrangements, Richard Georgerian worked closely with the VPs to document all meetings and schedule audio-visual and catering. Regarding the hotels, there were three contracted for EMC 2007 since so many people brought their families to Hawaii. In many cases, people booked multiple rooms. There are 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. All social events promise to be very well attended; a wait list was started for the Friday, July 13 anniversary luncheon and island tour. Regarding EMC 2008 Detroit, MI, Chair Kimball Williams noted 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. Regarding EMC 2009 Austin, TX, Chair Dave Staggs



PHOTO BY KEN WYATT

*Bob Scully (left) was the lucky winner of the raffle prize given at the end of the Awards Luncheon. Andy Drozd presented the unique prize of a dB clock designed by the Society's legendary member, the late Al Parker, and donated by Solar Electronics, founded by Mr. Parker.*

reports IEEE Insurance and Information Schedule forms are complete and submitted to IEEE CMS. 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. 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. They are working with the 2010 symposium committee on this contract. Regarding EMC 2010: Fort Lauderdale, FL, Chair Fred Heather noted there was no significant activity to report at this time. Regarding EMC 2011: Long Beach, CA, Chair Ray Adams reported that 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. Next, regarding regional conferences in Regions 1-7, Chair Janet O'Neil reported that tabletop shows took place to date in 2007 in Milwaukee, Wisconsin on March 27 (some 200 people attended), in Detroit, Michigan on May 3, 2007 (some 100 people attended), on May 15 in Chicago, Illinois (some 100 people attended) and on June 12 in Waldorf, Maryland (some 40 people attended). Coming up in Dayton, Ohio on September 24, Ms. O'Neil 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 Region 8, Chair 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	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 on Electromagnetic Compatibility: Safety, Reliability and Security of Communication and Transportation Systems over June 14 - 15 2007, in Paris (France). The IEEE France EMC Chapter as well as the IEEE Benelux EMC Chapter support the Workshop EMC Europe.

Regarding Region 9, Chair 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. On Site Selection, Chair Darryl Ray reported that Mike Oliver would make a presentation to the BoD on Saturday, July 7 regarding hosting the

2012 EMC International Symposium in 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. Jim Blaha next reported on Symposium publicity. Graham Kilshaw reported on Global EMC Symposia Co-Sponsorship, noting since March 2007, new TCS applications have been received for the following events: 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, The 2009 Intl Symposium on EMC, April 14 to 17, 2009, Kyoto, Japan. Chair: Professor Youji Kotsuka, and the 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 conferences. Also, since March, TAC approved technical co-sponsorship of The Fourth International China Symposium on Electromagnetic Compatibility (EMC'2007/Qingdao, China). October 2007. Chair: Professor Gao You Gang. Two conferences are still awaiting approval/recommendation for TCS sponsorship: The International Conference on Antennas, Propagation, and Electromagnetics, Bangkok, Thailand, February 5- 9 2008 with Chair Niels Koch and EMC (Embedded Electromagnetic Compatibility) in Rouen, France, October 18 – 19 2007 with Chair Gilles Le Calvez.

## EMC SOCIETY 50TH ANNIVERSARY COMMITTEE

Dan Hoolihan presented his 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.

## UNFINISHED BUSINESS

TAB Roster: President Drozd noted the following open representative positions. Board Activity: Public Relations (under VP Communications) and 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, and 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



PHOTO BY KEN WYATT

*Talk about legendary! Carl Baum (left) received the 2007 IEEE Electromagnetics Awards during the EMC 2007 Plenary Session. Long time colleague John Norgard, and fellow student with Dr. Baum at the California Institute of Technology, offered his congratulations.*

be the EMCS representative for the Committee on Transportation and Aerospace Policy.

## 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)

## ACTION ITEM REVIEW

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

## ADJOURNMENT

There being no further business, the meeting adjourned at 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. Sabbath, V. Mancino, R. Showers, A. Zimbalatti, J. LaSalle, and D. Skouby. President Drozd presented the agenda for the evening. Bob Hofmann asked that a discussion of the awards luncheon process be added to the agenda.

The following Vice-President reports provided updated information since the start of the Symposium week:

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 a short status:

- EM site survey (Std. 473): New chair Vilas - 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): Ready 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 Societies. 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 ends 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. The Board approved adopting TC-11 for Nanotechnology with a budget of \$500 per year. The Board approved accepting the slate of officers as presented by TAC chair Bob Scully. 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 the Friday anniversary celebration. The Board approved creating 50 DVD copies of the anniversary power point presentation. The Board approved distributing 30 copies of a DVD version of the history show to the Chapters at a cost not to exceed \$1,000.

## NEW BUSINESS

The following items were discussed under 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.

## 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, 2007.

*Submitted by:  
Janet O'Neil*

*Secretary, EMC Society Board of Directors*

## Current and Past Presidents of the EMC Society



PHOTO BY KEN WYATT

*The current and past Presidents of the IEEE EMC Society gathered for a group photo following the Awards Luncheon in Hawaii. Seated from left are Ralph Showers, Joe Fischer of Fischer Custom Communications, Don Heirman of Don HEIRMAN Consultants, Bill Duff of SENTEL, and Len Carlson. Standing from left are Don Clark of GTRI, Bill Gjertson of Boeing, Dan Hoolihan of Hoolihan EMC Consulting, Joe Butler of Parker Chomerics, Todd Hubing of Clemson University and Kimball Williams of Denso International America.*