

# EMC Society Board of Directors Meeting

*The Little America Hotel  
Salt Lake City, Utah  
May 31, 2008*

## THE PRESIDENT'S OPENING REMARKS

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, T. Hubing, E. Joffe, R. Jost, M. Montrose, J. Norgard, J. O'Neil, G. Pettit, D. Staggs, D. Sweeney, R. Wallen, and T. Yoshino. Board members absent included R. Goldblum, D. Heirman, D. Hoolihan, W. Kesselman, F. Maradei, and R. Scully. K. Williams attended as a guest. President Joffe reviewed Board meeting protocol, the IEEE code of ethics, and upcoming activities. Available via speakerphone were Warren Kesselman, Don Heirman, and Bob Scully. President Joffe relayed his thanks to Randy Jost and the local Utah Section Chair, Randall Redondo, for their hospitality during the outreach event on Thursday night. He thanked Bruce Archambeault for giving an excellent presentation. Regarding the TAB meeting, the major discussion involved the Technology Roadmap Initiative. On outreach efforts, Mr. Joffe thanked Takeo Yoshino for his excellent work in recruiting 10 new members at the APEMC 2008 recent symposium in Singapore. Globally, next month is the last Wroclaw EMC symposium. John Norgard, Kimball Williams and Elya Joffe will attend and represent the Board in Poland. Mr. Wallen will review additional global outreach activities in his report. Mr. Joffe noted the chapter outreach activity planned for Colombia, Argentina, and Korea/Australia. Finally, he advised he would attend the IEEE Sections Congress in September with Dave Staggs. The Board approved the consent agenda as presented.

## JOHN OSBURN TRIBUTE

Ghery Pettit presented a tribute to John Osburn who passed away recently. Mr. Pettit worked with John at two companies starting at Martin Marietta in Colorado. Dave Staggs spoke about his experiences with John on the 1997 IEEE International Symposium on EMC, his technical contributions that resulted in receipt of the Fellow Award, and his various EMC engineering positions at companies in Austin. Fred Heather relayed his memories of John and his contributions to many military projects.

## STANDARDS SERVICES

Don Heirman, Vice-President for Standards, presented his report. Standards activity covers three major areas: The Standards Education and Training Committee (SETCom), the Standards Advisory and Coordination Committee (SACCom), and the Standards Development Committee (SDCom). The SETCom chair is Qiubo Ye and the vice-chair is Professor Johan Catrysse. The SACCom Chair is Dave Guzman. The SDCom continues to be chaired by Stephen Berger with Ed Hare as the secretary. The SDCom met on May 30 with 16 people present. Mr. Heirman noted that the EMC Society is very active in Standards with a high ratio of standards to members. The SDCom reviewed the status of various standards projects and interactions with IEC/CISPR. An update on the active standards follows: Field Disturbance Sensors (Std. 475): Standard expires in 2011. There is interest in extending the frequency range below 300 MHz. SDCom working on identifying stakeholders and a WG to amend it. RF absorber evaluation (Std. 1128): Current until 2011. There is interest in extending this standard above 5 GHz. SDCom is identifying stakeholders and a WG to amend the standard. Video Display Terminals VDT emissions (Std. 1140): Current until 2011. SDCom consensus is that the standard should be allowed to retire. An ad-hoc group is looking at the standard to see if its LF (less than 400KHz) near-field measurement techniques could be of interest to stakeholders using that frequency range. Gasket character. (Std. 1302): Standard passed ballot with 100% affirmative ballot, with comments. SDCom will monitor the resolution of comments. Probe calibration (Std. 1309 amd): New WG chair organizing WG. A letter to to establish a Category D liaison was sent to SC77B WG10. RF filter performance (P1560): Current until 2010. No issues at this time. Computational EM (P1597.1): Issues with the document not matching the PAR delayed its going to ballot. Mr. Drozd will submit revisions to PAR by the end of next week. Computational EM (P1597.2): Issues with the document



*EMC Society President Elya Joffe greets members of the IEEE Utah Section at the Board's "outreach" event in Salt Lake City on May 29.*

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not matching the PAR delayed its going to ballot. Mr. Drozd will submit revisions to PAR by the end of next week. Intentional EMI to computers (1642): Ballot delayed. PAR extended to 2011; SDCOM wants to see draft. Line replaceable module (P1688): Draft 80% stable. First draft delayed until August meeting. SDCOM raised issues with the standard's methodology, but the WG Chair explained how the standard would justify its test methods. P1900 (Interference/coexistence-SDR): SCC-41 now approved, ending SDCOM oversight. SDCOM still interested in following SCC-41 development so will continue to receive reports on the SCC-41 standards. P1775 (Powerline Communications equipment EMC testing): Joint sponsor committee of 12 had deemed standard not ready for ballot. WG has nearly completed work on revisions. The next meeting will be in June. SDCOM raised concerns about the process used to oversee WGs and to determine that a standard is ready for ballot. Mr. Heirman noted standard 473 is very important, as there is no equivalent standard in the international arena. Elya Joffe has agreed to resume work on this standard so work may be completed by the end of this year. Related to general 2008 Standards activity, they will hold an election of officers before the August meeting. This will define the start of officer terms. The Standards committee discussed long range planning to make sure the Board's long range planning (LRP) items for Standards continue to be addressed by the committee.

## FINANCE COMMITTEE REPORT

In the absence of Treasurer Warren Kesselman, Andy Drozd presented his report. IEEE's 2007 Post-Closing Pre-Audit financials indicate that EMCS's 2007 operations ended with a net deficit of -\$86,900. A Cost Center Summary table was presented. The largest Cost Center variance between actual and budget is the Conference net (\$299.9k budget/\$126.1k actual). Committee expenses were summarized. The overall Committee expenses were slightly over budget. The Post-Audit financials will probably be available in July. Regarding 2008 Operations, the latest available 2008 IEEE financials are for the period ending 31 March. Operations were about "normal" at that point with a surplus of \$132,000. A 2008 first quarter finance summary and year-end forecast table were presented. On 2009 budget development, EMC's 2009 First-Pass budget revision has been submitted to IEEE. It was based on the motions passed at the March Board meeting. It is net negative (-\$35.8k) essentially due to two Education Committee new initiatives ("IEEE Expert Now" @ \$20k and "Secondary School Program" @ \$10k). This deficit budget falls within IEEE's 3% use of reserves policy. TAB will now review all Society/Council first-pass budgets and provide "Second-Pass Budget" guidance following its June meeting series. Minor Committee budget adjustments may be made at that time, but no changes may be made to the membership fee (\$30.00), Transactions page/issue budget (1,116 pages/4 issues), Transactions print copy fee (\$20.00) or Non-Member list price (\$400.00). The Member fee includes the print copy of the Newsletter and electronic access to the Transactions and the Conference Digital Library.



*Bruce Archambeault (center) of IBM was the guest speaker at the outreach event on the topic of "EMC and Electromagnetics for the Working Engineer." He relaxed after his presentation with Utah Section members.*

## MEMBER SERVICES REPORT

Dave Staggs presented the report on Membership Services. Bruce Archambeault presented the report on Awards. For the 2008 awards, he noted that the initial e-mail blast soliciting awards was sent out in early January with a second e-mail blast sent out in early March. The Awards Committee includes Colin Brench, Lee Hill, Bob Scully, and Dan Hoolihan. Candidates for the major EMC Society awards were presented along with pertinent letters of reference, discussions were held when needed, and the Board conducted a ballot vote for candidates. Results will be announced at the annual Awards Luncheon, this year held on August 21 in Detroit. In the absence of Francesca Maradei, Mr. Staggs presented her report on Chapter Activities. Chapter awards this year have been submitted. Regarding Chapter Retreats, there will be one in Region 8 in conjunction with EMC Europe 2008 on September 10 and there will be one during the EMC 2008 symposium in Detroit – on Tuesday, August 19 from 9:00 am – 1:45 pm (lunch included). Andy Drozd next reported that the Nominating Committee met at the March 2008 Board of Directors (BoD) meeting in Greenville, SC. A call for nominations for the BoD was published in the first Newsletter of the calendar year. On April 15, a notice for the solicitation of nominations for membership as a Director-at-Large on the Board of Directors was sent to existing BoD members and Chapter Chairs. May 30 was the deadline to submit nominating petitions. On July 15, Mr. Drozd is due to send to IEEE headquarters the slate of at least nine nominees for election to the six offices to be filled on the BoD. The Board approved Mr. Drozd's provisional slate of candidates for the 2008 EMC Society elections for Director-at-Large positions for a three-year term starting January 1, 2009. Mr. Drozd noted that officer elections would take place this November. He would like to receive information from the current officers if they are interested in running again and if they have term limits to address. Anyone interested in running for an officer position was asked to contact him. Membership Chair, Colin Brench, then



*Utah Section Vice-Chair Paul Oestreich, EMC Society Board member Randy Jost, and Utah Section Chair Randall Redondo (from left) helped organize the EMC Society's outreach event. The EMC Society sponsored the event to help raise awareness of EMC in the area and act as a catalyst to forming a new EMC Society Chapter in Salt Lake City.*

reported that IEEE membership in general is up by 5%, while Society membership is down. Total EMC Society membership is currently 3919, with 2293 new members in the last decade and 1627 members from all previous years. The EMC Society had 14 new senior members this calendar year. For the EMC Society, most members only stay involved for 2-3 years. He recommends working on retaining members. Henry Benitez spoke about the EMCS workshop membership drive initiative, first held by the Oregon and SW Washington EMC Chapter. He noted that the pricing of member versus non-member registration was a differential that provided IEEE and EMCS membership in the non-member fee (example, \$100 member/\$300 nonmember). Mr. Benitez's report discussed various ways of implementing this program. Next, Fellow Nomination and Support Committee Chair Todd Hubing advised there is no significant activity to report for the Fellow Search Committee since the last Board meeting as the majority of Fellow Nominations is made between the August symposium and the March nomination deadline. Mr. Hubing is ready to help match candidates with nominators and references as new candidates are identified. Fellow Evaluation Chair Bill Duff reports that this year there are five Fellow candidates that are being evaluated by the EMC Society Fellow Evaluation Committee. Based on his experience, he expects to have two or three of the EMC candidates elected to the grade of Fellow. The other members of the EMC Fellow Evaluation Committee are Gerry Capraro, Hugh Denny, Ernie Freeman and Art Wall. This will be Bill Duff's last year as Chairman of the Fellow Evaluation Committee. He is happy to work with the new chair to ensure a smooth transition. Anyone interested in chairing this committee next year is encouraged to contact Mr. Staggs. Frank Sabath reported as the Region 8 Membership Development Chair that he has identified several areas within Region 8 that

have more than 100 EMC members, thus they are potential areas for starting a new chapter. He will explore initiating this new activity. Region 9 Membership Development Chair Maria Alejandra Mora Riveros provided a detailed summary of activity in the VP Membership Services report. Since the last Board meeting, the EMC Society in Region 9 continues to hold the highest memberships in South Brazil, Mexico, and Colombia. Argentina and Venezuela have also an important membership number (13 and 8 members, respectively). Recently, Argentina created a joint EMC/AP Chapter. Mexico has the number of members required to create its new chapter (12 members). Efforts will be directed towards creating this new chapter as soon as possible, as well as expanding the EMC membership in the region. The Venezuela section has lost four members. Efforts are being directed to the creation of an EMC chapter. A future technical meeting with the participation of the Argentina, Colombia and Brazil chapters is proposed. The participation in this meeting will also be extended to Mexico and Venezuela. The idea is to exchange different points of view regarding EMC development in each Region. Ideally this will be held at the end of the year 2008 or at the beginning of year 2009, according to the availability of the EMC Board of Directors who will be solicited as speakers. Region 10 Membership Development Chair, Professor Takeo Yoshino presented a detailed report on activity during the Asia Pacific EMC week in Singapore, May 2008 at the Suntec Singapore International Convention & Exhibition Center. The EMC Society had a membership booth in the Suntec hall and promoted the 2008 IEEE International Symposium on EMC in Detroit. Professor Yoshino managed the booth and launched a campaign for new EMC Society Members in the Region 10 area especially. Ten new applicants for IEEE and EMC Society membership were received, including two from Singapore, four from Malaysia, three from Thailand and one from Pakistan. Sixteen others took back the 2008 IEEE Membership Application Form to their home. There was much interest in the Detroit symposium and all symposium brochures were taken. On photography, Mr. Staggs noted Ken Wyatt continues to be the EMCS photographer. He retired from Agilent on Jan 31, 2008 and continues to support the EMC Newsletter by providing photos and creating cover images. He will attend the 2008 EMC Symposium in Detroit. Jim Drewniak's report as the Distinguished Lecturer Program Chair provided information on each DL, their speaking term and their assigned IEEE Regions. The current DLs include: Dr. Erping Li, Dr. Jun Fan, Dr. Schlagenhauser, Dr. Tzong-Lin Wu, Dr. Stephan Frei, Dr. Alistair Duffy, and Dr. Eric Bogatin. Chair Bob Hofmann reports the "Financial Assistance Program" is up and running on the [www.emcs.org](http://www.emcs.org) web site. Also, the "Financial Assistance Program" is up and running under the registration button on the [www.emc2008.org](http://www.emc2008.org) symposium web site. Bruce Archambeault noted that Bob Davis would be the new chair of the "Completed Careers" committee. Mr. Archambeault wrote an article for the Spring 2008 Newsletter about this new committee. Members of the committee include Andy Drozd, Don Heirman, and Don Sweeney. This new committee is tasked to implement a plan to honor





*EMC Society Symposium Chairs gathered for an informal photo following the Utah Section meeting, including (back row from left) Fred Heather (2010), Dave Staggs (2009), Barry Wallen (1998), Kimball Williams (2008), John Rohrbaugh (1987), (front row from left) Henry Benitez (2006), Elya Joffe (2003) and Janet O'Neil (2007).*

EMCS members who have made significant contributions to the Society and have recently passed away. Randy Jost concluded the Member Services report by commenting on the Societies that make sense as potential sister societies. He will target the APS first. Andy Drozd suggested that since we started this work with the MTT Society, that they be included on the short list. His report showed a group of societies that are impacted by EMC. The goal is to co-sponsor meetings and events with these "sister societies", hold special sessions at annual symposia, write articles for magazines, etc. to expose the technologies inherent in the societies to each other.

## COMMUNICATION SERVICES

Ghery Pettit, Vice-President for Communication Services, presented his report. Mr. Pettit noted that the position of the Public Relations Chair remains open. Anyone interested in serving as Chair should contact Mr. Pettit. Mr. Pettit showed a summary of Newsletter finances since 2001. In 2002, the Newsletter started including paid advertising. At this time, the Newsletter went to full color and the page number continued to expand over the years. Since advertising was started, on average, the paid advertising income supplements the Newsletter expenses by approximately 50%. Janet O'Neil, Newsletter Editor, reported on activity since the last Board meeting. The

Spring 2008 issues is 88 pages and include many of the standard articles as well as the new "Completed Careers" article by Bruce Archambeault announcing the Board's intent to recognize deceased members. The South America EMC Chapter contributed material, as did the newly revitalized Philadelphia EMC Chapter and new Victoria (Australia) EMC Chapter. A full-page ad is included for the Region 8 Chapter Retreat in Hamburg. The History article by Dan Hoolihan includes the fourth most referenced Transactions on EMC paper in the first 50 years of the EMC Society – it is by Clayton Paul. There is also an announcement by Dave Staggs about the IEEE EMC Symposium papers being on line. There are two practical papers. This issue also includes the annual listing of new Senior Members as well as new EMC Society members. Ms. O'Neil met with Peter Tuohy of IEEE Magazines and Periodicals on April 18 at IEEE Headquarters in Piscataway to discuss the several items raised at the March Board meeting, including how to implement a procedure for members to "opt out" of receiving the EMC Newsletter as a print copy and the cost for implementing the Qmags version of the EMC Newsletter per issue on line. This allows viewing the EMC Newsletter on line in the format similar to that shown for IEEE Spectrum on line. Mr. Tuohy also recommended the EMCS install a "hit counter" to track the number of visits to the EMC Newsletter on line and, if possible, to the specific articles

in each issue to determine which articles are read the most (can impact ad revenue sales and placement), how often the Newsletter is accessed in general, etc. Ms. O'Neil worked with Perry Wilson, Editor of the IEEE Transactions on EMC, and Dave Staggs, Member Services VP and sent an e-mail blast on May 9 to EMC Society members announcing the Winter 2008 Newsletter being available on the Society's website, listing the table of contents for the May IEEE Transactions on EMC, and the IEEE EMC Symposium papers being on line with free access to members. Ms. O'Neil participated in the Newsletter Ad Hoc Task Force telecom on May 12 with Ghery Pettit, Dick Ford, Bob Goldblum and Barry Wallen. She is working with Mark Montrose and IEEE to review the pros and cons of having the EMC Newsletter become a formal IEEE Magazine. Ghery Pettit, chair of the Newsletter ad hoc committee, reported the committee met on May 12 via phone bridge to discuss ideas for the Newsletter. As part of the discussions it was felt that the committee needed more information on what Newsletter content is actually being viewed on the web site. As a follow-up to this Ghery sent an e-mail to the EMC Society Webmaster asking that hit counters be added to the links off the Winter 2008 issue table of contents. The ad hoc committee determined that there were no real cost savings to be realized by implementing the "opt out" of members receiving a print copy of the Newsletter. A suggestion was raised about adding electronic issues of the Newsletter between the printed issues. The ad hoc committee is reviewing the possibility of adding links to the papers listed in the on-line version of the EMCABs. As long as these links go to locations open to anyone (the on-line Newsletter is not limited to EMCS members) this shouldn't be an issue. Mr. Pettit then presented the report of Perry Wilson, the IEEE Transactions on EMC Editor. As of May 14, 97 manuscripts have been submitted in 2008. This rate projects a total of 262 submissions for the full year, in line with last year. Thus the submission rate has slowed somewhat from earlier in the year when the projection was 311. Month-by-month statistics are shown in Table 1 going back to 2003. The submission rate has been trending up, nearly doubling since 2003; however, perhaps the submission rate will now level 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	8***
June	11	23	21	21	23	
July	29	15	23	15	31	
August	15	16	11	28	23	
September	19	17	17	20	16	
October	16	17	11	22	35	
November	9	9	16	0	26	
December	10	14	12	0	19	
Total	178	187	187	301 (**)	283	262(****)

(\*) 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 May 14, 2008

(\*\*\*\*) Projected at current rate

For 2008, a Special Issue on Aerospace EMC is planned with R. Perez and Jim Lukash as Guest Editors. Eleven invited papers have been accepted for the Special Issue. The Special Issue is scheduled for August of 2008. For 2009, Prof. Vladimir Rakov (U. Florida) and Prof. F. Rachidi (TU Lausanne) have submitted a proposal for a Special Issue on Lightning. A special issue on the same topic was published in Nov. 1998 (134 pages) with F. Canavero, M. D'Amore, C. Mazzetti, and C. Nucci as Guest Editors. Prof. Rakov is confident that progress warrants another special issue. For 2010, Prof. Erping Li (U. Singapore) would like to propose a special issue on PCB Packaging EMC. EMC in electronics design is a strong area of contribution from Asia, and China in particular. This would be a good opportunity to highlight research in this area. Dr. Wilson attended the 2008 IEEE panel of Editors Meeting, April 4-5, in Los Angeles. He again met at length with George Criscione who is the IEEE staff member responsible for production of the IEEE EMC Transactions. They discussed a number of issues related to journal production. Related to timeliness, everyone involved in IEEE journals would like to shorten the time from paper submission to the decision to publication. Rapid processing has to be balanced with demands on volunteer reviewers and editors, maintaining technical quality and accuracy, page limits, etc. The IEEE plans to introduce timeliness metrics and determine which publications are in and out of compliance. For those on the "watch list", the IEEE will then "support, cajole, threaten" these publications to get them into compliance. The IEEE feels this is necessary to keep their publications competitive with other publishers, on-line self-publishing, Wikipedia-like forums, etc. How well this approach will work with the volunteer contributors remains to be seen. Dr. Wilson closed his report noting many publications closely monitor their "impact" factor as determined by the number of downloads, the download half-life, etc. History Chair Dan Hoolihan then reported he and a group of Washington, DC chapter volunteers moved approximately six file cabinets of information from Leonard Thomas's basement into storage boxes for storage in a temporary location. This activity took place the afternoon of May 27. He is inviting the EMCS Founders to Detroit for the Symposium. At the present time, he has preliminary commitments from four Founders (Burruano, Zimbalatti, Showers, and McNaul) to attend the symposium in Detroit. Mr. Pettit reported for Ray Perez, IEEE Press Chair, who advised a 2008 royalty summary report would be available in August. Books in progress include Elya Joffe/Kai Sang Lock (Israel/Singapore)'s "The Grounds for Grounding - Grounding from Circuits to Systems." The book is finished and will soon go into production. Regarding new books, Michel Mardiguian has submitted a proposal for a book on ESD. The proposal was reviewed and deemed to be very good. This information was sent to Cathy Faduska. Mr. Perez has tried to get an author for a book on EMC for wireless communications (with emphasis on EMC testing), but all contacts have fallen through. He will keep trying.

## CONFERENCE SERVICES

Barry Wallen, VP Conferences, presented his report. Initial discussion involved the use of IEEE Conference Man-

agement Services (CMS) for EMC 2009 and beyond. Mr. Wallen noted that there are problems with Tier 1 cities that are now reluctant to sign agreements with smaller conferences, such as the EMC Symposium, less than three years out. This is the problem with Denver. Yesterday, Mr. Wallen noted that he visited the Salt Palace, the Salt Lake City Convention Center, along with Janet O'Neil. This center is receptive to signing a contract for the EMC Society five years out. It is a good option then for a 2013 symposium location should a contract not be negotiable with the Denver Convention Center. Mr. Wallen showed the list of global EMC conferences that have requested Technical Co-Sponsorship from the EMC Society, including EuroEM 2008 in Switzerland, July 2008; the International Conference on Wireless Systems (CAS 2008), Sichuan September 2008; SoftCOM 2008 in Croatia, September 2008; INCEMIC 2008 in India, November 2008; and EMC Zurich 2009, Switzerland, in January 2009. The Board approved Mr. Wallen's recommendation to approve EMCS Technical co-Sponsorship for these conferences. Next, the status of EMC symposiums was reviewed. Regarding the EMC 2007 Honolulu, HI 50th Anniversary Symposium, Chair Janet O'Neil advised final revenues are reported as \$964,269 with expenses reported as \$892,334 for a net of \$71,935. The audit is underway. The symposium books should be closed in 30 days. Regarding EMC 2008 Detroit, MI, Chair Kimball Williams reported the 2008 Symposium Committee continues to meet via teleconference once each month. Registration to date is higher than average for the symposium years 2001-2006. However, the exhibitor booths purchased is lower than average. The symposium is expecting a surplus of \$249,000, slightly less than the budgeted surplus of \$277,000. The technical program is strong with 143 technical papers and five special sessions totaling an additional 20 papers. Regarding EMC 2009 Austin, TX Chair Dave Staggs reported the committee is working closely with the new conference management firm Three Dimensions. The Call for Papers, Call for Workshops/Tutorials, Call for Experiments/Demonstrations and Call for Special/Invited Sessions promotional material is in process to be distributed in Detroit and published in the EMC 2008 symposium proceedings CD. Work has started on the Exhibitor Package preparation for distribution at the 2008 symposium in Detroit. Regarding EMC 2010: Fort Lauderdale, FL, Chair Fred Heather advised there is nothing new to report since the last Board meeting in March. Ray Adams, Chair for EMC 2011: Long Beach, CA also advised there is nothing new to report since the last Board meeting in March. Regarding EMC 2012: Pittsburgh, PA, Chair Mike Oliver reports EMC 2012 continues to investigate Pittsburgh hotels and venues, and is working with Barry Wallen to lay out a strategy for conference management. Exhibitor Liaison Janet O'Neil next reported that she is working on plans for the annual exhibitor breakfast and coordinating this with Mr. Wallen and the existing and future symposium chairs. She has invited Three Dimensions to attend the breakfast so the exhibitors can get to know the new company handling EMC 2009. Regarding regional conferences in Regions 1-7, Janet O'Neil reported that the several tabletop shows were held



*Steve Berger of TEM Consulting gets ready for the Standards Development Committee (SDCom) meeting held in Salt Lake City on May 30.*

since the last Board meeting. At the tabletop show on March 12 in Greenville, SC, some 70 people attended. This was the first time a tabletop show was held in South Carolina. There were six speakers and 17 companies purchased tabletop displays. Todd Hubing and Janet O'Neil were the principal organizers. The event yielded a surplus of some \$8,000 to the EMC Society – this was a Society organized event as there was no EMC Chapter in the area. The local IEEE Section supported the event, but did not assume any financial risk or surplus from the event. April 1 in Milwaukee featured speaker Mark Steffka with a sell out crowd of over 200 people in attendance and over 20 exhibiting companies. Jim Blaha was the principal organizer. April 29 in Huntsville with speaker Bruce Archambeault also had excellent attendance with some 230 people in attendance and 42 exhibiting companies. On May 8 in Detroit with speaker Doug Smith, there was a good turn out of 105 people and 28 exhibiting companies (tabletop space sold out). Scott Lytle was the principal organizer. On May 13 in Chicago, Frank Krozel organized this event with multiple speakers. Attendance was slightly over 100 people and there were 28 exhibitors. Fred Heather organized a small tabletop show on June in Maryland. Regarding Region 8 activity, Frank Sabath's report includes a listing of several EMC conferences coming up in 2008 and 2009, which are technically co-sponsored by the EMC Society. Regarding Region 9, Janet O'Neil reported she is coordinating with Elya Joffe as part of the global outreach planning to have a technical event in Colombia, and possibly San Paulo and Buenos Aires. Regarding Region 10, a search for a new Region 10 representative is underway. On Site Selection, Chair Darryl Ray reported that he is working with the Denver team as a possible host for the 2013 Symposium. A possible problem is the Denver Convention Center will not book an event until three years out. Additional sites will be contacted to see if there is an interest in hosting EMC 2013, including Vancouver BC, Washington/Baltimore, Chicago, San Diego and Salt Lake City (a possible replacement for Denver with many of the same committee members from Denver staying on for Salt Lake City). On Glob-





*Elya Joffe of KTM Project Engineering, Board President, and Janet O'Neil of ETS-Lindgren, Board Secretary, prepare for the start of the May 31 Board meeting in Salt Lake City.*

al Conferences, Mr. Kilshaw reported that the following technical co-sponsorship applications are awaiting disposition by TAC: Asia Pacific MTT EMC 2008, Malaysia; SoftCOM 2008, Croatia; Wireless Systems, CAC 2008, Sichuan, China; INCEMIC 2008, India; CEEM 2009, Xi'an China; EMC Zurich 2009, Switzerland, EUROEM 2008, Switzerland (submitted 6/18/07); and Antennas, Propagation, EMC in Bangkok (submitted 1/31/070). Mr. Wallen concluded his report by noting the development of a Conference Group Web Page has been initiated. Web pages will consist of several items, including home pages on the Conference Group Infrastructure, Conference Sponsorship, Calendar of Sponsored Events, Symposium Operations Manual, Symposium Budgeting Process, Historical Symposium Data, Conference Invitation Process, Call for Conference Host and Conference Site Selection Questionnaire, among other topics.

## TECHNICAL SERVICES

John Norgard, Vice President for Technical Services, presented his report. He discussed the IEEE Technology Management Council. The Technology Management Council (TMC) provides managers, aspiring managers, and those being managed with leading-edge resources to fulfill their career objectives. The TMC advances the profession of engineering, technology, and innovation management, and the careers of IEEE members and individuals in the profession. The Council focuses on the global audience of practitioners and researchers through its publications, conferences, educational products, and through its relationship with related organizations. If the EMCS joins the council, the Society needs to fund spending \$5,000 to send a representative to the council meetings. The Board approved Mr. Norgard's recommendation that the EMC Society join the Technology Management Council. Mr. Norgard commented on the IEEE Expert Now program. The EMCS has allocated \$20,000 towards this program. Randy Jost suggested using



*Takeo Yoshino (left) of the University of Electro Communications and Don Sweeney of DLS Electronic Systems visit during a break in the Board meeting.*

the Global University lectures and the annual fundamentals tutorial as potential material to include in this program. Bruce Archambeault, Technical Activities Committee (TAC) Vice-Chair, presented background information on the new paper review software used for the first time during the EMC 2008 symposium. On the symposium paper review system, comments to date are mostly good, however, there were some less-than-ideal experiences. The response time from the MTTS software support personnel was very quick. There were a few problems with the second round of reviews, which were corrected. Overall, the training/documentation needs to be improved. The database dump capability was very useful. An issue with SPAM filters and some authors' not receiving notifications needs to be addressed. The Board decided to conduct an electronic survey of reviewers, TC chairs, authors, etc. about the paper review software used for EMC 2008. Ghery Pettit will manage the survey as VP of Communications. A report will be made at the August Board meeting. The most active TCs in terms of number of papers reviewed for the EMC 2008 symposium included TC-2 EMC Measurement (62 papers), TC-4 EMI Control (32 papers), TC-9 Computational EMC (32 papers), and TC-10 Signal Integrity (22 papers). The least active TCs were TC-6 Spectrum Management (0 papers), TC-7 Nonsinusoidal Fields (2 papers) and TC-11 Nanotechnology (3 papers). Related to the 2008 Detroit Symposium, the total technical paper count is 165, of which 143 are regular papers and 22 are special session papers. Regarding the "Symposium Technical Guidance Document," the draft document was sent to a selected few Board Vice-Presidents on 5 March for comment. Barry Wallen made one correction, but no other comments were received since that time. The committee is ready to proceed to the next step to complete the document for final board review. Fred Heather next advised that the annual RAC/SACCom luncheon would be held in Detroit this year in conjunction with the symposium. Regarding the Education and Student Activities Committee, Mr. Norgard reported the current officers



*Board members Todd Hubing (left) of Clemson University and Colin Brench of the Southwest Research Institute catch up on activity since the last Board meeting held in Greenville, South Carolina.*



*Lunchtime provided a good networking opportunity for (from left) Dick Ford of the Navy, Bob Davis of Lockheed Martin and Kimball Williams of Denso International America.*

include Chair Bob Nelson (r.m.nelson@ieee.org), Vice-Chair Randy Jost (r.jost@ieee.org) and Secretary Larry Cohen (lawrence.cohen@nrl.navy.mil). The subcommittee chairs include: NARTE Jim Whalen (jjw@eng.buffalo.edu), Experiments Manual Ed Wheeler (e.wheeler@ieee.org), Hardware/Software Demonstrations Andy Drozd (a.l.drozd@ieee.org), Fundamentals Tutorial Daryl Beetner (daryl@umr.edu), University Grant Committee Tom Jerse (jerset@citadel.edu), Student Paper Contest Jim Whalen (jjw@eng.buffalo.edu) and Aziz Inan (ainan@up.edu), Student Design Contest Harold Rudnick (harold.rudnick@ieee.org), and Faculty Workshop Ed Wheeler (wheeler@rose-hulman.edu). Continuing its long-standing tradition, the ESAC Fundamentals Tutorials committee will provide a day-long set of tutorials during the 2008 IEEE EMC Symposium. Daryl Beetner is planning a day-long set of tutorials (EMC Refresher Course) with the proposed topics/speakers: Inductance & Capacitance in System Design – Daryl Beetner, The Path of Least Impedance – Elya Joffe, Partial Inductance – Clayton Paul, and Automotive EMC – Todd Hubing. On the University Grant, Tom Jerse reports there will be one award for \$5,000 and one award for \$10,000 at the Detroit Symposium. Harold Rudnick reports that 22 requests for Student Design Kits were received from nine universities. Of these, six were returned. Ed Wheeler and Andy Drozd are handling the experiments and demonstrations. Jim Whalen and Aziz Anan are reviewing the student papers submitted. Professor Whalen is also working with Brian Lawrence on the NARTE workshop and exam.

## LONG RANGE PLANNING

President Elya Joffe presented an update on the Board's long-range plan (LRP). The "mega-issues" under each VP area were reviewed. The next LRP meeting will be held during the November Board meeting.

## UNFINISHED BUSINESS

The following items were discussed under unfinished business:

**Report from IT Planning Committee:** Fred Heather showed the charter for the IT Committee and a list of tasks that the committee could address to make the Board more efficient.

**Committee Vacancies/Appointments:** President Joffe showed a list of the EMCS vacant positions, including the IT Planning Committee, Technology Management Council EMCS rep, PACE Coordinator for VP Membership, and Public Relations Chair for VP Communications. There are also many vacant IEEE representative liaison positions on the RAC. The Board discussed various ways to recruit new volunteers for these positions.

**Standing Committee Terms of Office:** The Board discussed plans to ensure all committee officer terms are on



*Also networking over lunch (from left) was Mark Montrose of Montrose Compliance Services, Randy Jost of the Space Dynamics Lab at Utah State University, and Fred Heather of the Navy.*





*Takeo Yoshino, Henry Benitez of ElectroMagnetic Investigations and Andy Drozd (from left) of ANDRO Computational Solutions paused for a photo following the Board meeting. All agreed Salt Lake City was an excellent location for a future EMC Symposium.*

track with clear start and end dates.

#### **NEW BUSINESS**

The following items were discussed under new business:

**Wikipedia Page for EMCS:** Mark Montrose talked about the page he created for the PSES. Mr. Joffe requested Mark look into creating a page for the EMCS, working with Dan Hoolihan of the History Committee, and Ghery Pettit, VP of Communications.

**Spectrum Management:** Dick Ford noted his concern that TC-6 on Spectrum Management did not submit any papers for EMC 2008. This is a critical topic that the EMCS should be involved in. WiMAX is using the balance of reserves in less hertz, giving rise to concerns about quality. Andy Drozd noted that DySPAN is an active conference group addressing this issue as well as the Communications Society and the Department of Defense. Mr. Ford noted that the EMCS should focus its efforts on spectrum engineering. Andy Drozd volunteered to chair an ad hoc committee to address this topic and bring it to the forefront of the EMC Society.



*Dave Staggs, Bruce Archambeault, Barry Wallen of ANDRO Computational Solutions, and Ghery Pettit of Intel (clockwise from upper left) are all smiles during a break in the Board meeting.*

#### **CLOSING REMARKS**

President Joffe presented the Board meeting schedule for the balance of 2008 and a proposed meeting schedule for 2009. These dates and locations will be published in the Calendar section of the EMC Newsletter and EMC Society website. Outreach events with local chapters and sections, such as held in Salt Lake City, will be planned where practical at the upcoming Board meeting locations.

#### **ACTION ITEM REVIEW**

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

#### **ADJOURNMENT**

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

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