



# RAC/SACCom Annual Meeting Report

By Fred Heather, Chairman of the Representative Advisory Committee

The Representative Advisory Committee (RAC) and the Standards Advisory and Coordination Activities Committee (SACCom) met during their annual joint luncheon on Monday, August 8, 2005 in conjunction with the IEEE International Symposium on EMC in Chicago. RAC chair Fred Heather and SACCom Chair Elya Joffe led the meeting.

At the annual joint RAC/SACCom luncheon meeting, plans were announced to expand the RAC. The 5-year review of the EMC Society by IEEE revealed that our membership was lacking in international participation. By way of this article, the committee is seeking participation from non US based organizations that are involved in setting requirements for EMC laboratories, regulations, staffing, and other EMC technical social rule making. Also, we welcome participation from an individual interested in representing such a group. Please send any correspondence to heatherF@ieee.org. Then, make plans to support and attend the next annual joint RAC/SACCom luncheon meeting on Monday, August 13 in Portland, Oregon in conjunction with the 2006 IEEE International Symposium on EMC.

Who is part of the RAC today? The table below shows the current membership of the RAC.

At the luncheon, the RAC members reported the following on their respective group activities.

Dick Ford reported that the IEEE-USA R&D policy committee's association with the President's Information Technology Advisory Committee (PITAC) ended when President Bush

let the committee expire on June 1st. The R&D community was happy with the decision on the file sharing Supreme Court case. There was a lot of discussion regarding export controls (or lack thereof) and in the end to "give away the farm." The last issue was a congressional (mainly coming from the Democratic party) call to arms regarding loss of innovation by the US (specifically from Rep. Jerry Costello, D-IL). This generated a large amount of e-mail with many points of view and support.

Maria Sabrina Sarto reported on the Nanotechnology Council (NTC). The scope of the council activities is to introduce EMC engineers to nanotechnology, provide updates on recent developments in nanotechnology and its applications, and advise how nanotechnology is expected to impact the EMC sector in the coming years. At EMC EUROPE 2004, in Eindhoven (The Netherlands), September 2004, there was a workshop on "Nanotechnology: Introduction, Recent Developments, and Perspectives in EMC", organized by M.S. Sarto with speakers M.S. Sarto, M.L. Terranova, F. Sarto, and C. Sibilina. The attendance was 40 people. At the 2005 IEEE EMC, in Chicago, Illinois, August 2005, there was a workshop on "Nanotechnology and Advanced Materials," organized by C.L. Holloway and M.S. Sarto with speakers C. Teague, M. Meyyappan, P. Grodzinski. M.S. Sarto, C.G. Parazzoli, W. Porod, and A. Feinerman. At the Nano Technology Council (NTC) AdCom Meeting in Nagoya, Japan on July 11, 2005, the nomination of new Associate Editors (AE) of NTC was proposed from the societies joining the

Activity	Web	Representative
National Association of Radio and Telecommunications Engineers (NARTE)	<a href="http://www.narte.com">www.narte.com</a>	David A. Case NCE, NCT
Aerospace Research & Development		Open
American Council of Independent Laboratories (ACIL) and U.S. Council of EMC Laboratories (USCEL)	<a href="http://www.acil.org">www.acil.org</a>	Donald L. Sweeney
Applied Computational Electromagnetics Society (ACES)	<a href="http://aces.ee.olemiss.edu/">http://aces.ee.olemiss.edu/</a>	Andy Drozd
IEEE Nanotechnology Council (IEEE/NTC)	<a href="http://ewh.ieee.org/tc/nanotech/">http://ewh.ieee.org/tc/nanotech/</a>	Maria Sabrina Sarto
IEEE Sensors Council (IEEE/Sensors)	<a href="http://www.ewh.ieee.org/tc/sensors/">http://www.ewh.ieee.org/tc/sensors/</a>	Andrew Podgorski
IEEE-USA R&D policy committee	<a href="http://www.ieeeusa.org/committees/RDC/">http://www.ieeeusa.org/committees/RDC/</a>	Dick Ford
IEEE Engineering in Medicine and Biology Society, Committee on Man and Radiation (COMAR)	<a href="http://www.eng.unsw.edu.au/embs/index.html">http://www.eng.unsw.edu.au/embs/index.html</a>	Dan Hoolihan
IEEE-USA Energy Policy Committee	<a href="http://www.ieeeusa.org/committees/EPC/">http://www.ieeeusa.org/committees/EPC/</a>	Open
IEEE Metric Policy	<a href="http://standards.ieee.org/announcements/metric.html">http://standards.ieee.org/announcements/metric.html</a>	Stephen Berger
IEEE Society on Social Implications of Technology (SSIT)	<a href="http://radburn.rutgers.edu/andrews/projects/ssit/default.htm">http://radburn.rutgers.edu/andrews/projects/ssit/default.htm</a>	Robert Brook
IEEE Women In Engineering Affinity Group, Women in Engineering Committee		Ms. Vidi Bar-Natan from Israel
IEEE Communications, Information Policy, Medical Technology Policy Issues		Open

council that do not currently have AE on the Editorial Board in order to manage papers that may be of interest to both the Society's IEEE Transactions as well as the NTC publication. Ms. Sarto reported that there are plans for the formation of new Technical Committees within the IEEE NTC; for example, perhaps having a TC on EMC Applications of Nanotechnology. There is a proposal to create new TC on "Advanced Materials and Nanotechnology" within the IEEE EMC Society (this was previously proposed by C.L. Holloway in 2004, but not approved). The NTC also proposed activation of a new regional interest group in Region 8. The NTC plans for the organization of a special session or workshop on nanotechnology during the next 2006 IEEE International Symposium on EMC. The NTC is concerned that until 2005, only a few papers have been published in the IEEE Transactions on EMC, but there is much new technology occurring with nanostructured materials for EM shielding, FSS, etc. and RF characterization of nano-IC. The NTC sees the need to develop standard methods for the experimental characterization of the EM properties of nanostructured materials at the macro scale level.

Andrew Drozd reported on the Applied Computational Electromagnetic Society (ACES). The 2005 ACES Conference was held in conjunction with the IEEE Conference on Wireless Communications on 3-7 April 2005 at the Hilton Hawaiian Village in Honolulu, Hawaii. Some 270 papers were published and the attendance was approximately 250 people. There was a plenary session as well as 30 technical paper sessions. The five parallel sessions included regular and special sessions. The next ACES Conference will be held on its own over March 12-16, 2006 at the Hyatt Regency in Miami, Florida. They are beginning an active marketing campaign to bring more exhibitors and product demonstrations to the next venue. The current challenge is to continue to grow membership and interest in ACES under the new conference and membership development strategy that is in place. The society is work the issues over product-oriented technical sessions. They plan to continue to maintain close ties between groups in ACES and the EMC Society's TC-9 Committee on Computational Electromagnetics. They will be coordinating with the IEEE P1597 standard efforts.

Daniel Hoolihan reported on the Committee on Man and Radiation (COMAR). The last meeting of the COMAR was scheduled for late June in Dublin, Ireland. However, the meeting was cancelled due to conflicts with other biological EMC meetings. The next meeting is scheduled to be in San Antonio, Texas around the second week in December. COMAR discussed a published paper on powerlines and childhood leukemia. The title was: "Childhood cancer in relation to distance from high-voltage power lines in England and Wales; a case-control study." There is an association between childhood leukemia

and proximity of home addresses at birth to high-voltage power lines, and the apparent risk extends to a greater distance than would have been expected from previous studies. About 4% of children in England and Wales live within 600 meters of high-voltage lines at birth. If the association were causal, about 1% of childhood leukemia in England and Wales would be attributable to these lines. The 1% estimate has considerable statistical uncertainty. There is no accepted biological mechanism to explain the epidemiological results; indeed, the relation may be due to chance or confounding.

David Case reported on NARTE. The NARTE Board of Directors met on May 4-6, 2005. NARTE is participating in the 2005 EMC Symposium with a pre test workshop and EMC test on Friday. NARTE provided comments in support of Motorola position on FCC NPRM 04-186 on unlicensed use on TV bands. They supported the position on use of certified installers of wireless systems. The next NARTE Board meeting will be held in October 2005. NARTE will offer an ESD certification test at the ESD Symposium, though not formally as part of the Symposium program.

In closing, as noted above, the committee is actively seeking participation from non US based organizations that are involved in setting requirements for EMC laboratories, regulations, staffing, and other EMC technical social rule making. Also, we welcome participation from an individual interested in representing such a group. If you have any interest, please correspond with the author using [heatherF@ieee.org](mailto:heatherF@ieee.org).

We look forward to the next meeting in Portland, Oregon on August 13, 2006! EMC

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