



**Education & Student Activities Committee
(ESAC)**



2003 Draft Minutes

**EMC Society Education & Student Activities Committee Meeting
IEEE EMCS Symposium – Boston, MA
Tuesday, August 19, 2003**

1. Call to Order – Introduction

1.1 The ESCA Chairman, Maqsood Mohd called the meeting to order at 7:09 am. He thanked everyone for coming.

1.2 Introductions were made by all present (See attendee list at end)

2. Review of Draft Agenda

2.1 No new items were added to the agenda. Kimball Williams removed his item in New Business concerning the changing of the name of the student activities committee.

3. Announcements

3.1 No announcements were made

4. Minutes of Last Meeting

4.1 Minutes of the August 20, 2002 meeting were presented by Kimball Williams. Minutes approved by the committee.

5. Old Business

5.1 Brief Sub-Committee Reports

5.1.1 Demonstrations

Andy Drozd was delayed in attending this meeting, so Maqsood started the discussion, with Andy joining in when he arrived. Andy said that this year's number of demonstrations (~20) was the lowest number yet. While various reasons were proposed as to the cause, including the switch over to the symposium committees handling the arrangements, it was felt that overall, the process was sound and that getting the call for experiments out earlier would probably improve the situation considerably.

5.1.2 Experiments, Vol II

Dick DuBroff presented the status of the second edition of the EMC Experiments Manual. Dick has three more experiments to add to the list and incorporate into the new volume, and he is interested in adding additional experiments to the list. Those

wishing to contribute to the new volume should send their suggestions and inputs to Dick, or to Jim Drewniak, who has also made major contributions to this effort. Those wishing to review the new experiments that have been added to the web site can see them at < <http://www.ewh.ieee.org/soc/emcs/edu/exper.htm> >.

5.1.3 NARTE

Jim Whalen and Russell Carstensen reported on the NARTE activities that took place in Istanbul. The feedback was that it was a very successful activity. For this year's symposium, 25 attended the Monday NARTE workshop. Maqsood followed Jim's report with a sincere expression of thanks for all the work that Jim has done over the past years to push the NARTE effort forward.

5.1.4 Tutorials

Maqsood reported on the Tutorial activity that was taking place at this year's symposium. The Fundamentals workshop as full as usual, with a standing room only crowd for the morning's session, with an estimate of around 400 people attending at the peak. The Panel discussion that was held with this year's symposium was especially well received, with people staying right up to the end and beyond. He noted that this was the 10th year of such activity and recognized Bob Hofmann for his willingness to allow the ESAC to put on the tutorials.

5.1.5 EMC Outreach

Maqsood also provided us with an update on Outreach activities. He said that they are working hard on emphasizing K-12 activities, with an average of a presentation per week. Jerry Meyerhoff related the activities that he was pursuing in the Chicago area. Peter Weiser pointed out that there are web links on the EAB web page for outreach material. A suggestion was made that we incorporate web links and materials off of the ESAC web site also, so that people would have a central site to go to for such material.

5.1.6 University Grant

John Howard said that the University Grant Proposals went very well this past year, and that we had a very good set of submissions. This year's winner was Dr. Thomas Jerse, from the Electrical Engineering Department at The Citadel, in Charleston, South Carolina. John pointed out that the majority of submissions were coming from the USA and suggested that we needed to find a better way to reach those in Europe and Asia who could benefit from such a proposal. Elya Joffe volunteered to promote the grant at European conferences that he would be attending over the next year. Administratively, John said that Randy Jost would be serving as Vice-Chair of the University Grant committee the coming year to assist John. This was because of John's substantial involvement with the upcoming Santa Clara Symposium in 2004.

5.1.7 University Survey

Due to the absence of Antonio Orlandi this year, Maqsood stood in for him. He said that there was not much happening in this area, in terms of people voluntarily submitting information via the survey.

5.1.8 Video Productions

Dick Ford had lots to present concerning the status of video production over the past year. After laboring mightily over the past few years, a CD-ROM was produced and distributed at the conference that has three experiment demonstrations on it. First is a demonstration of “EMC Aspects of Magnetic Field Coupling of Current Loops,” by Dr. Jasper Goedbloed of Geldrop Netherlands. Second is the demonstration of “ESD and EMI in Printed Wiring Boards,” by Doug Smith. Third is the demonstration of the “Effects of Pulse Rise/Fall Time on Signal Spectra,” by Professor Clayton Paul of Mercer University. The production of these experiments represents a tremendous amount of effort by the demonstrators as well as Dick. Maqsood enthusiastically expressed his appreciation for all the effort that went into making this milestone possible.

5.1.9 Student Activities

Maqsood reported on the results of the student paper contest. We had 34 papers submitted, with the winning one being “Electromagnetic Coupling Through Perforated Shields Due to Near Field Radiators,” by Ms. Shabista Ali of the Department of Electrical and Computer Engineering, University of Delaware. Maqsood stated that we could use assistance from the conference technical committee to be sure that the papers are evaluated in a timely fashion. We also discussed the need to develop criteria for evaluating student papers and how that should be carried out.

With regard to the Student Design Contest, Ahmad Fallah reported that 20 kits were requested and 8 kits were returned for evaluation. The winning entry was from the University of Wisconsin-Milwaukee. There was some discussion about the actual process used in the design contest, with Jim Whalen asking questions specifically as to how the kits were to be evaluated. Ahmad went over the process with the committee and said that he hoped to do more of the activity at the University of Minnesota.

5.1.10 Nominations

Because of the many demands on his time, Andy Drozd resigned his position as Vice-Chairman of the ESAC. Maqsood expressed his thanks for all that Andy has done over the past years in supporting the educational activities of the committee. Bob Nelson was nominated and elected as Vice-Chair to replace Andy, and Randy J. Jost was nominated and elected as Secretary to replace Bob Nelson.

5.1.11 Web site Activity

Randy J. Jost, who was assisting Bob Nelson with ESAC web site management reported on the status of the ESAC web site. There are many things that could be done with the web site in using it as a communications and resource tool for the committee and the EMC society overall. The biggest need is for material to be submitted to Randy so it can be incorporated into the pages. All were encouraged to submit any appropriate material that might be beneficial to the committee.

5.2 Report on International EMC Symposium in Istanbul, Turkey

Elya Joffe provided an abbreviated report the very successful EMC Symposium that was held in Istanbul, Turkey. He noted that there were 34 sessions, with 283 papers given in up to 6 parallel sessions. Four tutorial sessions were offered. Additionally, 20 student papers were received for the conference. For additional information about the symposium, readers are directed to the summer 2003 newsletter, available on the EMC website at:

< <http://www.ieee.org/organizations/pubs/newsletters/emcs/summer03/> >.

6. New Business

6.1 Attendance by Educational Activities Board Representative

Peter Weisner of the IEEE Educational Activities Board attended the meeting. He said his main purpose was to see what the EMC Society was doing in the area of educational activities, and encouraged us to contact him or one of the EAB members if we wanted assistance in educational matters. He was impressed by the scope of our activities and encouraged us to continue the amount and quality of our activities.

6.2 Workshop for EMC Faculty

Randy J. Jost proposed that we look at sponsoring a workshop for new (or current) EMC faculty members at the Santa Clara Symposium. The idea would be to have a series of short presentations to cover various aspects of starting up a new EMC course, or improving an existing course. Contents of the workshop could also be made available to others via the web. The general consensus was that this was need and a good idea. The real question was whether there would be enough support to get in place by next year. Randy said he would talk with several individuals and see what could be put together, or short of that prepare a more detailed proposal for next year's ESAC meeting.

7. Adjourn

A motion was made by Randy J. Jost to adjourn the meeting and seconded by John Norgard. The motion passed and the meeting adjourned at 9:10 am.

Secretary's note: Additional information about ESAC activities can be found by reading Maqsood's article in the Fall 2003 EMC Newsletter at:

< <http://www.ieee.org/organizations/pubs/newsletters/emcs/fall03/education.html> >

Meeting Attendees

Bob Bashford
Russell Cartensen
Andrew L. Drozd
Dick DuBroff
Ahmad Fallah
Dick Ford
John Howard
Elya Joffe
Randy J. Jost
Gregg Kervill
Warren Kesselman
Jerry Meyerhoff
Maqsood A. Mohd
John Norgard
Robert C. Scully
Ralph Showers
Jianjian Song
Zorica Pantic-Tanner
Jim Whalen
Ed Wheeler
Peter Wiesner
Kimball Williams
Ken Wyatt