

EMCS Educational and Student Activities Committee (ESAC)

Minutes of Annual Meeting in Ft. Lauderdale

7/28/10

Introduction

- 1) Draft agenda was reviewed and approved.
- 2) Self introductions were made.
- 3) The minutes of the last meeting in Austin were reviewed and approved.
- 4) Tom Jerse showed the ESAC structure of activities and noted that more volunteers are needed to support them.

Subcommittee Reports

- 1) iNARTE—No representative was available to give report.
- 2) Experiments manual—Ed Wheeler not available, but Tom Jerse read his report. He has collected seven new experiments and is expecting six more from Mark Steffka based on Henry Ott's new book. These will all be uploaded to the ESAC website. Randy Jost suggested that the experiments that are almost 20 years old should be examined and updated. Mark Steffka expressed an interest in helping with this and Ed Wheeler will also be involved. Dick Ford suggested that we begin making videos of the experiments for educational and preservational purposes. Dick proposed that a small subcommittee be formed to determine the logistics. The motion was passed, and Dick will lead the group. Larry Cohen, Elya Joffe, and Bob Scully all volunteered to serve on the subcommittee. Doug Kramer suggested that a good contact for learning more about the packaging and distribution of video would be Mike Violette of Espresso Engineering.
- 3) University Grant—Tom Jerse announced that the winner of the 2009 grant is Farmingdale State College in New York where the instructor is Uma Balaji. The 2010 call will be released by September 1. The society has allocated \$5K for this year.
- 4) Student Paper Competition—32 papers were received and reviewed with a winner selected. Funding for the Baranek award, which has generally been used to recognize the runner up, has been discontinued. For more timely results, a subcommittee for student paper reviews is needed. Chuck Bunting volunteered to lead the subcommittee and Jeffrey Ward volunteered to serve on it.
- 5) Student Design Competition—For the past two years, the design competition was not offered. Tom Jerse has negotiated with Lexmark for them to provide *pro bono* testing of the entries. Tom suggested a constructing a random number generator run off a 9-V battery for the project and doing a 30-1000 MHz scan of the radiated emissions to determine the winner. A kit of parts will be provided to interested student teams. Tom will package the kits and head up the project.
- 6) Fundamentals Tutorial—Daryl Beetner reported on the good response to the Fundamentals Tutorial. About 100 people attended and there were quite a few standees, so a larger room would have been helpful. In 2011, the Fundamentals tutorial will be organized by Henry Ott.

- 7) Experiments and Demonstrations—For the past two years, the organization of the experiments and demonstrations has been done by the TPC of the Symposium. Tom Jerse felt that this has worked better than direct involvement of the ESAC because the TPC knows the local venue and the local resources better. ESAC has provided a review function and Elya Joffe felt that this process should be continued.
- 8) ESAC Website—Tom Jerse showed the current listings and noted that updates are needed.
- 9) K-12 Outreach—Elya Joffe gave a report on the subcommittee activity. He said that the near-term goal is to reach out to high school students starting with an awareness of how EMC affects everyday life. EMC engineers could speak and demonstrate “simple but exciting concepts.” Mark Steffka talked about the high school presentations he has done. Bob Scully discussed his experiences as a high school kid in Ft. Worth that were done by the Ft. Worth Children’s Museum. Elya asked Bob to provide him with a few bullets on the Children’s Museum concept.

Other Business

- 1) EMC Academy—Kimball Williams discussed how the idea for the academy evolved. A way is needed not only to educate novice EMC engineers, but also to educate more experienced engineers in concepts that are new to them. Bob Scully said a certificate should be awarded after completion of a course sequence. Randy Jost said Continuing Education Units (CEU) should be awarded and that ESAC must coordinate the educational package in order that it could be presented to the BOD.
- 2) ESAC Procedures Manual—Randy discussed the need to revise and update the committee Policies and Procedures Manual. The electronic copy of the manual will be sent out to the membership for review with the goal of generating proposals to be acted upon in next year’s meeting.
- 3) EMC Educator Awards—Elya Joffe presented two proposals for EMC educator awards. The first would recognize a teacher of EMC continuing education with at least 10 years experience. A cash award of \$1000 and a bronze plaque would be presented to the winner. Dick Ford made a friendly amendment to make the award biennially. The second award would be made to an academic educator with no more than 5 years elapsed time since their first teaching appointment (teaching as a graduate assistant does not count). A cash award of \$1000 and a bronze plaque would be presented to the winner and it would be presented biennially. The committee voted on both proposals and they passed by acclamation. They now need to be approved by the BOD and a source of funding must be identified.

- 4) Student Ethics Competition—Elya Joffe proposed a Student Ethics Competition to be held each year at the Symposium. The winning team would receive \$400 and a certificate; the runners-up would receive \$200 and a certificate. The proposal was voted on by the committee and received unanimous approval. Elya volunteered to serve as chairman. BOD approval is needed for this proposal to become reality.
- 5) Expert Now—Bob Scully informed us that this IEEE program has been renamed eLearning and that IEEE will fund the initial course development. If the course proves popular enough to repay the initial investment, it could become a revenue stream for the Society. More details about the program need to be learned, and then ESAC will need to choose an initial speaker and topic.

New Business

- 1) Election of Secretary—Larry Cohen is stepping down after four years of valued service as committee secretary. Bogdan Adamczyk of Grand Valley State University was nominated and elected to replace Larry.
- 2) Five-Year Plan—Randy Jost discussed the rolling 5-year plan that is required by the TAC. The form was displayed and Randy will complete it for Friday's TAC meeting.

Adjournment

The meeting was adjourned at 9:15 am.

ATTENDEES

Bogdan Adamczyk
Bruce Archambeault
Daryl Beetner
Chuck Bunting
Larry Cohen
Dick DuBroff
Dick Ford

Tom Jerse
Elya Joffe
Randy Jost
Doug Kramer
Jerry Meyerhoff
Vignesh Rajamani
Mark Steffka
Tesfahun Ei