



TC-5: High Power Electromagnetics



**Annual Meeting at the
2002 IEEE International Symposium on EMC at Minneapolis, MN
Wednesday, August 21, 2002**

Confirmed August 20, 2003

1. Chairman Bill Radasky brought the meeting to order at 7:30 am. All the members present introduced themselves, and the following items were discussed. The list of the attendees is attached at the end of the minutes.
2. Bill Radasky made a motion to accept the minutes of the last meeting (August 15, 2001), and this was seconded by Bill Croisant. It was unanimously approved.
3. Based on the succession plan, the last meeting minutes were clarified by Bill Radasky. The vice chair is Mike McInerney and Maqsood Mohammed is the secretary. This clarification was approved unanimously.
4. A discussion was initiated by Bill Radasky about the activities of TC-5. He explained that he has been active in the field of HEMP for 34 years and in the new field of intentional EMI (IEMI) for the last 5 years. He has organized Intentional EMI workshops at the Zurich EMC conference and IEMI special sessions at EMC conferences such as AMEREM/EUROEM. He made an observation that the activity in this area has been in non-IEEE conferences but mostly done by IEEE members. He solicited comments from the meeting and recommended that we should pursue more activities at our IEEE symposia. Since military threats and targets have classification issues, we should keep the IEEE activity limited to civilian types of problems. The IEC is also involved, and they are looking specifically for the impact on civilian systems and to write standards to protect equipment from these threats. We should work to try to define EM environments and the frequencies involved for the emerging threat. The group agreed to focus on conducting a workshop at the next Boston Symposium in August 2003.
5. Since the Education and Student Activities Committee (ESAC) has pioneered the successful Monday Tutorial Workshops a decade ago, Maqsood will be the point of contact for putting together this workshop. He will contact the Boston committee and find a slot for this workshop. Everyone interested in helping this effort should send their ideas to Maqsood. The format is not final, but it would be similar to the ESAC's Fundamentals workshop. Some potential speakers and expertise were discussed. For the sources, Dave Giri is an excellent contributor, and for IRAs with fast rise times, scientists at AFRL Kirtland should be considered. It was suggested that the workshop should include both fundamentals and advanced topics. Cooperation with other technical



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associations was also discussed. Randy Jost will contact the DEPS and inform us if they are interested in participating in our workshop.

6. Bill Radasky will take a look at the web page, streamline a few items and update the missing information. Also he will review the charter, vision, etc. of TC-5, will update it, and get it approved by the proper IEEE committee. When it is approved, he will pass it along to the webmaster, Randy Jost, for updating the web page.
7. A discussion also ensued about a special issue of the Transactions on EMC on the subject of Intentional EMI. Professor D'Amore, the Transactions editor, was in the audience. He provided the timeline needed to meet the publication deadlines. A proposal to publish a special issue for May 2004 should be received by the end of October 2002. Typically, the issue will contain about 15 papers. The proposal should contain information such as title, possible content, whether papers will be sought by call for papers or purely invited papers, etc. This would be an informal proposal. He advised that the paper content should be primarily of industrial interest. At the present time he informed the group that the wireless communications community has submitted a proposal to publish a special issue in 2004, but TC-5 has a strong possibility also. The special issue will require one or two guest editors who would also be subject matter experts. Don Clark suggested Fred Tesche's name for the guest editor. Bill Radasky will contract Dr. Tesche and will submit a proposal to Professor D'Amore by the end of October 2002.
8. The next item discussed was the upcoming symposium, the 2003 IEEE EMC International Symposium in Istanbul, Turkey. Bill Radasky informed the group that he is the chair of TS-5 (similar to TC-5), and a session on intentional EMI is planned for this symposium with 10-15 papers expected. The deadline for submitting papers for this symposium is October 15, 2002. The review process for this symposium will be done electronically.

The meeting adjourned at 8:30 am.

Respectfully submitted

Maqsood Mohammed, Secretary



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List of Attendees

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