

## **TC-5:** High Power Electromagnetics



### Annual Meeting at the 2007 IEEE International Symposium on EMC at Honolulu, Hawaii Wednesday, July 11, 2007

#### Confirmed August 20, 2008

- 1. Chairman Dr. William (Bill) Radasky brought the meeting to order at 12:02 pm. All of the members present introduced themselves (list of attendees is attached), and the following items were discussed.
- 2. Officer Election. Chairman Radasky requested nominations for a committee secretary. Mr. William Price was nominated, and a motion to elect was offered. The motion was seconded and approved. Mr. Price will therefore serve as TC-5 Secretary from 1 January 2008 until 31 December 2010. He will be Acting Secretary for this meeting.
- 3. <u>Minutes</u>. Chairman Radasky reviewed the minutes of the 2006 meeting. There were no recommendations for amendments, so the chairman asked for and received a motion to approve the minutes. The motion was seconded and approved.
- 4. <u>Technical Papers</u>. The committee reviewed 25 papers submitted to the 2007 conference of which 5 were rejected. Of the remaining 20, 5 required mandatory revision and 2 of those did not respond to the comments. In the end seventeen papers were accepted, of which 2 were recommended for best conference paper.
- 5. Special Tutorial Session on Lightning. Chairman Radasky complimented Prof. Rachidi on the lightning tutorial session held on Monday where 7 experts from Europe, the United States and Japan presented to about 70 attendees. The morning session covered the lightning phenomenon, while the afternoon session focused on lightning interactions with systems, detection and location. Chairman Radasky asked Prof. Rachidi if an invited session on lightning might be in order in future years. Prof. Rachidi mentioned that there are several near-term conferences focusing on lightning: ICOLSE, the International Conference on Lightning Protection and another conference in South Africa, so the need for a special session at an IEEE EMC Conference was not great.
- 6. <u>Standards</u>. Two IEEE standard practice publications on intentional EMI have been in the works. The first (P1642) recommends measures to protect computers and computing systems from IEMI and is going well although several principal contributors were unable to attend this year's conference, and therefore the working group must ask for an extension and accelerate their work. The second (P1643) was to be a specific standard practice about protecting electronic voting machines from IEMI but has been cancelled due both to schedule delays and to some confusion regarding the future of electronic voting machines.



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- 7. Web Page. The web page suffered a loss of new content due to an IEEE web maintenance error, which should soon be remedied.
- 8. <u>HPEM and IEMI Activities</u>. Chairman Radasky reviewed HPEM and IEMI activities since the last meeting. He attended a workshop in Paris in June 2007 on EMC aspects of security and transportation systems, where a special session was held on IEMI for these topics. He mentioned the following upcoming EMC meetings: a) the URSI North America conference in Ottawa in July 2007; b) an EMC conference in Torino in September 2007; c) the Zurich EMC meeting this year in Munich in September 2007; and EMC conferences in: d) China (October 2007); e) Singapore (EMC Zurich May 2008); f) Lausanne (EUROEM July 2008); g) the URSI International conference in Chicago (August 2008); and h) EMC Europe in Hamburg (September 2008).
- 9. <u>Future IEEE International Symposia on EMC</u>. Chairman Radasky asked the committee to suggest tutorials, workshops or special sessions for next year's EMC symposium. The following suggestions were received:
  - a. a half-day workshop on lightning effects on aerospace system to be organized by Fred Heather
  - b. TC-7 is proposing a special session on protection against conducted transients for the 2009 symposium and has asked TC-5 to co-sponsor; the committee agreed it was a good idea and will discuss details next year;
  - c. Dr. Perry Wilson, the current editor of the EMC Transactions, suggested that TC-5 consider the possibility of a special issue on a topic of interest. After some discussion, it was noted that in August 2004 a special issue on HPEM and IEMI was published in the EMC Transactions with Dr. Radasky serving as guest editor. Given the great success of the lightning tutorial this year, it was decided that a special issue on lightning would be in order; Chairman Radasky welcomed the suggestion and asked Prof. Rachidi to prepare a formal proposal;
  - d. no special session for next year was suggested.
- 10. <u>Election of Officers</u>. Chairman Radasky opened the floor to nominations for chairman and vice-chairman; none were offered. Chairman Radasky stated that both the current Chairman and Vice-Chairman were willing to continue. The offer met with unanimous approval. This means that both Dr. Radasky (Chairman) and Mr. McInerney (Vice-Chairman) will each serve three-year terms beginning on 1 January 2008 until 31 December 2010.
- 11. Other Business. There was no other business.
- 12. The meeting was adjourned at 1300.



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Respectfully submitted,

William Price Acting Secretary





## Attendees at TC-5 Meeting on 11 July 2007

Name	Organization	E-mail Address
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