



**IEEE ELECTROMAGNETIC COMPATIBILITY SOCIETY
TECHNICAL ADVISORY COMMITTEE (TAC)**

Friday, 30 July 2010

Please Reply to:
Kermit Phipps
EPRI
942 Corridor Park Boulevard
Knoxville, TN 37932
Tel: (865) 218-8021
Fax: (865) 218-8001
Email: khipps@epri.com



IEEE ELECTROMAGNETIC COMPATIBILITY SOCIETY TECHNICAL ADVISORY COMMITTEE (TAC)

Friday, 30 July 2010, 7:00 am Eastern USA

TC MEMBERS PRESENT

Bruce Archambeault – Chair
Jun Fan – Vice-Chair
Kermit Phipps – Secretary

Chairs	Vice Chairs	Secretaries
TC-1 – Doug Kramer		Mike Bosley
TC-2 – Don Heirman	Tom Fagan	Clifford Hauser
TC-3 –	John Archer	
TC-4 – John Archer	Philip Keebler	
TC-5 –	Mike McInerney	
TC-6 – Karen Dyberg	Clifford Hauser	Larry Cohen
TC-9 – Chuck Bunting		
TC-10 – Giulio Antonini		Antonio Ciccomancini
TC-11 – Chris Holloway		Marina Y. Koledintseva

TCs Unrepresented

None

OTHERS PRESENT

Elya B. Joffe, Immediate Past EMCS President
Bob Scully VP of Technical Services, BoD
Magnus Olofsson, TAC SC 2 Chair
Frank Sabath, GSC Chair
Colin Brench, BoD
Tom Jerse, ESAC Chair
Ghery S. Pettit, BoD
Mark Steffka, TAC SC 3 Chair

MINUTES – Friday, 30 July 2010

IEEE EMCS TECHNICAL ADVISORY COMMITTEE – TAC

07:00 a.m. to 9:00 a.m.

1.0 Call to Order & Introductions

The Chair, Bruce Archambeault, reopened the TAC meeting at 07:02 a.m. There were 23 attendees with 15 active members present.

2.0 TC1-TC11 Presentations

Each TC presented a status report by PowerPoint, which was loaded on the Chair's computer for archiving and is not reflected in the minutes.

TC-1: Doug Kramer and Bruce Archambeault discussed that the review of the iNARTE question pool be conducted by TC-1 only and that ESAC would also fall under TC-1.

TC-2: Don Heirman reported that TC-2 was made up of almost all new members. Possible new areas of interest for future workshops is mil-spec testing and smart grid testing.

TC-3: TC-3 did not have any presentation, but vice chair John Archer was present at the meeting.

TC-4: Bruce Archambeault pointed out that TC-4 should consider more on common-mode emissions because there are no current controls or guidance, and TC-4 should be more involved in this area. Currently, there is not a standard that addresses common mode limits for cabling.

TC-5: Mike McNerney led a discussion on HEMP, stating that the last special issue was in 1978 and that a special session should be consider, with technical activities, P1642 work, lightning, and system-level information security and IEMI.

TC-6: Karen Dyberg discussed TC-6 Special Sessions for NMSC Workshop, Army Spectrum Workshop, DoD E³ Review, DoD spectrum Management Workshop to mention a few of the TC-6 activities. During the TC-6 presentation, an action item was taken to obtain microphones for next year's meeting.

Action Item – Jun Fan obtain microphones for next year's meeting.

TC-9: Chuck Bunting Indicated that part 1 of 2 was complete for the ballot on P1592. No mention of future workshops.

TC-10: Antonio Ciccomancini indicated that there were seven new members and the TC was growing with a membership of 26. The Tutorials Workshops went well with three invited speakers.

TC-11: Chris Holloway:

Propose special *Transaction* issue on nanotechnology for 2011.

Propose tutorial on nanotechnology fundamentals for 2011.

Propose regular session, special session, and perhaps workshop for 2011.

Publish in EMC newsletter for 2011.

2.1 Other Activities

Proposed workshop for 2011, Part 2 Mil-Std-461, which would have ESD and lightning aspects.

Proposed workshop or 2012, which would be on system-level protection.

Several TCs held elections; the new officers and residing officers are listed in the current TC Contact List, TAC Contact 11Aug10.doc on the TAC Forum.

3.0 Technical Co-Sponsorship

Ghery Pettit presented a timeline for technical co-sponsorship, which reflected the beginning to end the process of technical co-sponsorship; it would take 7 ½ months for approval.

Yes/No decision forwarded to event 2 weeks prior to publication
2 weeks to sign MOU (both parties)
1 ½ months for IEEE approval
½ month for BoD vote on MOU
1 ½ months to generate MOU for BoD vote
3 months for TAC review (may be faster)

The process was discussed, and of note was that the technical level of involvement is not defined by the IEEE. The request must be filled out in full; if not, it would be not be accepted for review. The BoD directive is for TAC to write the guidelines.

Frank Sabath stated that the topic of the conference is important and should be very clear, and he asked how many papers would have to be reviewed for the co-sponsorships?

Don Heirman stated that the "focus" is a must to know for establishing if the symposium asking for co-sponsorship should be reviewed for acceptance.

Bob Scully suggested that the TAC should form a special committee from floating members of the TCs.

From these discussions, an action item was taken to put the subject on the TAC forum for review.

Action Item – Jun Fan TAC forum to be set up to discuss "applications of technical co-sponsorships."

4.0 Low-Frequency EMC

Dr. Magnus Olofsson reported on the activity of the Low-Frequency EMC and Power Quality Workshop. He stated that there is increasing activity in LF EMC in Europe, in particular in Germany where PQEMC is competing with smart grid. In this year's workshop, there were four presenters from the PES and EMCS, and the workshops were very dynamic and well-attended.

The Chair, Bruce Archambeault, opened the floor for discussion of forming a new TC for low-frequency EMC.

Bob Scully stated that perhaps a second workshop should be held to demonstrate continued interest before the new TC is formed. This would be similar to the requirements and steps that were taken in forming the Safety TC.

Don Heirman stated that all information is needed and that the BoD would want to see a scope and charter when TAC recommends the new TC (if it is decided that it should be formed).

Don Heirman motioned that a special committee to be formed in the meantime.

John Archer seconded the motion.

The Chair, Bruce Archambeault, called for a vote: All were in favor, with none opposing and no abstentions.

Dr. Magnus Olofsson was appointed by Bruce Archambeault to be Chair of the [Special Committee for Low-Frequency EMC](#).

5.0 Automotive EMC

Dr. Mark Steffka presented on Automotive EMC, in particular his presentation covered the background, causes of EMC issues in automobiles, how shielding is incorporated, and new and future requirements.

Also he pointed out that currently there is no natural home for automotive EMC and posed the question, “Why should there not be a separate TC for automotive?”

Bob Scully recommended that the same procedure (formation of special committee and two years of workshops to show Interest) be done in creating the TC, and he moved that a special committee be formed.

Don Heirman pointed out that because these were special committees, then a motion to form one was not required, and that the TAC chair can approve the formation of special committees without a motion.

The Chair, Bruce Archambeault, then [approved the formation of the Special Committee for Automotive EMC](#) and appointed Dr. Mark Steffka as chair.

6.0 Smart Grid

Don Heirman discussed what the smart grid was, why there is such a high interest by the SDCOM regarding the immunity of the smart grid, and actions and steps that the SDCOM has taken to participate or stay apprised of the activities in P2030 and the steps taken in alerting the need for EMC requirements.

Don Heirman suggested that at least five of the TCs would have to be involved and that a committee should be formed and report on a roadmap on moving forward in the creation of the TC.

Don Heirman made a motion to form a special committee similar to the last two for the purpose of establishing how smart grid activities would be carried out within TAC—a special committee with cross TC membership or the creation of a new TC.

Bruce Archambeault [approved the formation of the Special Committee for Smart Grid](#) and appointed Don Heirman as the chair. Mr. Heirman is to report on which TCs should be involved with the smart grid and provide a roadmap.

7.0 Adjourn

Bruce Archambeault closed the meeting at 9:05 am, and the date and time of the next TAC meeting would be announced by e-mail when finalized.