

**IEEE ELECTROMAGNETIC COMPATIBILITY SOCIETY
TECHNICAL COMMITTEE 4, EMI CONTROL TECHNOLOGY**

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**IEEE EMC INTERNATIONAL SYMPOSIUM
EMI CONTROL TECHNICAL COMMITTEE – TC-4
ANNUAL MEETING – August 20, 2008
Detroit, Michigan**

12:00 pm to 2:00 pm

AGENDA

1.	Call to Order, Welcome, Introductions, & Opening Remarks (Chair)	5 minutes
2.	Agenda Motions	2 minutes
3.	Approve 2008 Agenda	2 minutes
4.	Approve 2007 Minutes	5 minutes
5.	2008 Technical Paper Review Discussion	10 minutes
6.	Website Information	5 minutes
7.	Future Plans <ul style="list-style-type: none"> • PAR EMI Guide for System Integration and Sensitive Electronics • Form Working Group for PAR • Strip Line Shielding Effectiveness Demonstration for 2009 	10 minutes
8.	Five Year Plan	10 minutes
9.	Adjourn Part 1	5 minutes
10.	Part 2 Shielding Work Mini Presentations	30 minutes
11.	Close & selection of venue / time of next meeting	10 minutes

MEMBERS PRESENT

Officers

Kermit Phipps – Chair

John Archer – Vice-Chair

Philip Keebler – Sec

Members and Past Officers

Bob Scully – TC-4 Past Chair

Richard Mohr TC-4 Past Chair

Dan Modi – TC4 past Vice-chair

Richard Mohr

Lothar Hoeft

Philip Keebler

Buzz Brezinski

Matt McCollum

David Larrabee

David Southworth

Richard Briët

Jim Whalen

Mike Hatfield

John Kraemer

Bob Davis

MEMBERS ABSENT

Todd Hubing Vil Arafiles Paul Cook William Croisant Nissen Isakov Rafik Stepanian

Ed Nakauchi Tom Fagan John T Brown Jan Catrysse Michael McInerney

Diane Kempf Mark Stanton George Kunkel – TC-4 Past Chair

OTHERS PRESENT

Elya Joffe

Yari Zafrir

Ehoud Alouf

Bill Liles

Conferees Email addresses and affiliations.

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MINUTES –Tuesday 11 July, 2007
IEEE EMCS EMI CONTROL TECHNICAL COMMITTEE – TC-4

12:00 p.m. to 2:30 p.m.

1.0 Call to Order, Welcome, Introductions, & Opening Remarks

The Chair, Kermit Phipps, opened the TC4 meeting at 12:00 p.m. There were **blank** attendees with **blank** members present. Kermit Phipps prepared a PowerPoint presentation for the meeting and it was shown on the projector. The purview of TC04 was shown first for review.

2.0 Approval of Agenda

The day's agenda was presented by the Chairman and was approved by vote with no changes.

3.0 Approval of 2008 Agenda

The 2008 meeting agenda was reviewed by officers and members present and approved.

4.0 Approval of 2007 Annual Meeting Minutes

The Chair, Kermit Phipps, reviewed the 2007 Annual Meeting Minutes. The Meeting Minutes were approved by vote with no changes.

Copies of the final minutes were to be distributed to all members, by email, within thirty days.

5.0 2008 TECHNICAL PAPERS REVIEW DISCUSSION

There was an open discussion about the submitted papers to TC-4 with the following 2008 statistics.

2008 Paper Review	
Number of Papers	32
Number of Committee Members Performing Review	11
Average Number of Papers Reviewed By Members	8
Review Results	
Number of Papers Favorable	29
Number of Rejections	3

Several of the members made comments about the papers and the paper reviews. These comments were regarding grammar, expression of thoughts on paper, English being a second language, allowing authors additional time for the rectification of language and grammar issues and problems, complaints by other TCs with the same problems, the need for a standard to govern paper development and submission requirements, perception of readers views on IEEE when papers with errors are passes along for publication and copying to the CD-ROM, existence of remaining grammar errors on papers even after they had been corrected, the possible use of professional editors at local universities to edit papers submitted by professors and students before they are submitted to TC-4 for review, recommendation for IEEE to have a paper format to help guide paper reviews and development of language for the paper, recommendation to have a tutorial available on development of papers for the foreign authors with the most English language problems, affirmation of the difficult review process, the need for papers developed with the usage of good English and grammar practices, and the remaining requirement to reject papers with such continuing problems.

Past 2002 and 2003 paper statistics were also presented.

6.0 Website Information

John Archer provided a demonstration of the TC-4 website and how it can be easily updated. Some discussion took place on additional information to put on the website including papers by Hoelt on shielding, other shielding papers by other authors, and general EMC guides.

7.0 Future Plans (as presented on the PowerPoint Slide)

- **Standards Development**
 - ✓ **Assist in Representing P299.1 to SDCOM until Standard is Finished**
 - Phipps and Keebler
 - ✓ **PAR EMI Guide for System Integration and Sensitive Electronics (Filtering and Shielding) e.g. semiconductor tools, robotic servo and ASDs**
 - Are there standards now?
 - ✓ **PAR P1560.1 for Method of Measurements of Active Filters (e.g. UPSs and Associated Power Supply Systems)**
 - ✓ **Signup for PAR Working Groups (now)**
- **Support Paper Review**
 - ✓ **Sign up now.**
- **Strip Line Shielding Effectiveness Demonstration for 2009. Electrically Small and Physically Small**
 - ✓ **Others?**

Kermit Phipps discussed the possible future project plans for TC-4, focusing on the above topics. The above projects were discussed. Members present like the idea of developing new standards projects. The need for new members on the P299.1 committee was discussed by Phipps and Keebler, and an update on the development of the 299.1 standard was also presented. Some were interested in the EMI Guide as listed above. Comments were made about the existence of other IEEE standards (e.g., The Green Book and The Emerald Book) on related topics such as grounding that could be used as a guide for filtering and shielding, but that there was no specific standard that addressed the topic as a whole. Phipps mentioned that other standards bodies like SAE and others may also be interested in picking up this project alone or possible in conjunction with IEEE. This guide could be developed if there were enough TC-4 members interested in signing up for a PAR Working Group of which the effort could be led by Phipps and Keebler, for example. Phipps discussed a follow-on project to IEEE 1560 regarding Methods of Measurement of Active Filters used in UPS systems, power-conditioning equipment, and other associated power supply systems. Some TC-4 members expressed an interest as well. Some discussion also occurred on the development of a demonstration for 2009 on Strip Line Shielding Effectiveness for Electrically Small and Physically Small enclosures – a part of the 299.1 efforts. Hoelt mentioned the possible development of a Transfer Impedance workshop with a focus on measurement techniques, and that a “Sell Sheet Proposal” needed to be developed to get it approved by the proper IEEE EMC authorities.

8.0 Five Year Plan

Phipps presented a slide on “Long Term Planning” for TC-4. It contained the following bullets which were discussed. Members present liked these ideas. Phipps and Keebler volunteered to write an TC-4 membership invitation for an upcoming EMC Newsletter (this was later done).

- **Continue Paper Review and Support Other TAC activities**
- **Provide Interaction & Discussion for the Industry & Standards Groups (e.g. G46)**
- **Develop and Sponsor Workshops and Demonstrations (These will not always get accepted Due to competition for Positions, e.g. 40 workshops proposed but only 10 slots, they can be tabled)**
- **Outreach to Members Local IEEE Groups and Report**
- **Outreach for PAR and Standards Work Related to EMI Control**
- **Promote Membership: TC-4 can only perform as well as its base membership and experience allows.**

9.0 Adjourn Part 1 (10 minute break)

Part 1 of the meeting was adjourned by Kermit Phipps, Chair.

10.0 Part 2 - Shielding Work Mini Presentations

Kermit Phipps, reopened the meeting to address Shielding Work Mini Presentation by others. The following made a mini presentation: John Archer.

11.0 Close & Selection of Venue / Time of Next Meeting

The selection of venue for the next meeting was discussed. The group liked the idea of keeping the meeting on Tuesdays or Wednesdays at the regular time of 12:00 pm to 2:00 pm with lunch provided.

Submitted,

Philip F. Keebler

Philip F. Keebler -Secretary
IEEE EMC Society
TC-4 Group