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

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11 October, 2009
MINUTES OF THE IEEE EMC TC-4, EMI CONTROL TECHNOLOGY
19 August, 2003
Boston, Massachusetts

MEMBERS PRESENT

Bob Scully – Chair

Dan Modi - Vice-Chair

Kermit Phipps – Secretary, Chairman of P1560

Richard Mohr – TC-4 Past Chair

Lothar Hoefft - Chairman of P1350

William Croisant

Vil Arafiles

Mike McInerney

John Kraemer

Rafik Stepanian

Diane R. Kempf

Mark Stanton

David Laarabee

Richard Briët

MEMBERS ABSENT

Todd Hubing – President, IEEE EMC Society

George Kunkel – TC-4 Past Chair

Nissen Isakov

Kwok Soohoo

Buzz Brezinski

Ed Nakauchi

OTHERS PRESENT

Robert Brook (Interested New Member)

Bill McGinnis (New Member)

David Brumbaugh EIA G-47 Chair (Observing)

Bill Stass

Richard Davis

**EMI CONTROL TECHNOLOGY – TC-4
Minutes Summary Tuesday August 19, 2003**

0.0	Call to Order	Scully
1.0	Approval of Agenda	Phipps
2.0	Review Role of TC4	Phipps
3.0	Approval of 2002 Annual Meeting Minutes	Phipps
4.0	Review of TC4's Work Over Past Year	Scully
5.0	TC4 Plans for Year 2003 / 2004	Scully
6.0	Elections of Officers	Scully
7.0	Other Topics	Phipps
8.0	Close & Selection of Venue / Time of Next Meeting	Scully
9.0	Adjournment	Scully

MINUTES –Tuesday 19 August, 2003
IEEE EMCS EMI CONTROL TECHNICAL COMMITTEE – TC-4

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

0.0 Call to Order & Introductions -

The Chair, Bob Scully, opened the TC4 meeting at 12:15 p.m. There were 18 attendees.

1.0 Approval of Agenda

The day's agenda was presented by the Secretary, Kermit Phipps, at 12:20 p.m. and was approved by vote with no changes.

2.0 Review Role of TC4

The Chair, Bob Scully opened the review of the Charter for TC4 at 12:25 p.m.

3.0 Approval of 2002 Annual Meeting Minutes

The Chair, Bob Scully, reviewed the 2002 Annual Meeting Minutes at 12:35pm. The Meeting Minutes were approved by vote with changes. (Lothar Hoefst First, Dan Modi Seconded)

4.0 Review of TC4's Work Over Past Year

The Chair, Bob Scully, presented the group with the following outline of work accomplished at 12:40.

- **TC-4 TECHNICAL PAPERS REVIEW**

An important task of the committee is the yearly review of technical papers for the EMC Symposium. For the 2002 EMC Symposium in Minneapolis, Minnesota:

Paper Review	
Number of Papers	86
Committee Members Performing Review	10
Average Number of Papers Reviewed	28
Review Results	
Favorable	75
Rejections	11

Following the presentation a round table discussion was heard on the difficulty of paper review and why the pdf format papers were not available. It is apparent that the formatting from and submission of hardcopies is a difficult task in the short time frame the group has to work with.

A discussion was presented by Bob Scully that the TC-4 may be tasked in the future to review other papers for other functions that may be sponsored by the EMC Society.

Bud Hoefst led a discussion on the plausibility of formatted pdf files that the EMC society receives. Dan Modi offered to assist Bob Scully for formatting and sanitizing the pdf files to make distribution easier among the working group easier.

There was short discussion on the style guide of the submitted papers.

In order to save time the following group members volunteered to help in the paper review ahead of time:

David Brumbaugh Diane Kempf spoke for Buzz Brezinski as Volunteer

Richard Mohr	Lothar Hoeft	Kermit Phipps
William Croisant	Vil Arafiles	Mike McInerney
Mark Stanton	David Laarabee	Richard Briët
John Kraemer	Rafik Stepanian	Diane R. Kempf
John Kraemer	Dan Modi	

The Chair, Bob Scully then reviewed NARTE question pool review the group participated in the past year:

20 Questions were reviewed by David Larrabee, Todd Hubbing, and Bob Scully.

- **STANDARDS DEVELOPMENT**

Another important task of the Committee is the development of standards within our areas of expertise. Currently there are (2) sub-committees in the process of developing standards or performing research as follows.

1. Technical Study Group researching previous P1350 efforts to provide new data support for resubmission of the PAR in the future.
Lothar Hoeft – Chairman of the study program presented the current issues of the shielding artifact research. A meeting will be held 20 August 2003 to review new data collected over the past year. The artifact measurements between labs are promising and are approximately within 4 to 5 dB. The group is now studying the feasibility for an artifact design for mode stirred chambers. Lothar Hoeft asked that the group have continued support from TC-4 for meetings in terms of funding if possible.
2. Working Group P1560
The P1560 Chair, Kermit Phipps informed the group that the PAR modification and a two year extension has been approved. The current revision of Draft 1.4 is to be updated. Draft 1.6 is planned to be submitted to the SDCOM by the end of October of 2003. Bud Hoeft asked about the manufacturer list for balloting. Kermit Phipps presented a current list 19 manufactures and that he would be working on establishing who is and is not an IEEE member and SA member. During the Symposium Kermit Phipps will be revisiting filter manufactures for new possible ballot members. It is planned that the list will be completed by the of the Draft 1.6 release to the SDCOM.

5.0 TC4 Plans for Year 2003

1. Continue Paper Reviews
2. Continue working group Chaired by George Kunkel for a workshop for “Use of Transfer Functions in EMC Design” for the 2004 EMC Symposium. From the discussion it is clear that some areas of the program outlined will be modified and that further work will be required to define the topics and selection of appropriate speakers. It was mentioned by Dan Modie that it might be in the best interest to have the demonstrations video taped ahead of time and will be consider. Also under consideration is a new title, which reflects contents of the workshop more accurately to draw interest.
3. The Workshop effort for the P1560 demonstration has been proposed for the 2005 Symposium instead of being held in conjunction with “Use of Transfer Functions in EMC Design” and it will be addressed by TC-4 and the Working Group in the upcoming months or year.

4. It estimated that the Group will be reviewing at least 15 more questions form the NARTE Test Question Pool

6.0 Elections of Officers

At 1:30 pm by numinous vote by the Technical Committee, it would hold its current officers positions and that no change be made.

7.0 Other Topics

At 1:30 the Scetart Kermit Phipps Recognized David Brumbbaugh the Chair of EIA G-47. David Brumbaugh explained the purpose the group he is representing, which reviews military and government standards for electronic manufactures. The group is interested in reviewing the P1560 Filter Measurement Standard Work. Kermit Phipps, Chair of P1560 stated that he would provide web links for Draft 1.5 once it is completed, for comments and peer review.

8.0 Close and Selection of Venue/Time of Next Meeting

At 1:55pm the Chair, Bob Scully requested input for the next meeting time. The Members agreed that the next annual meeting would be held at Santa Clara, California at the EMC 2004 Symposium. The Meeting would be held on Tuesday from 12:00 - 2:00 p.m.

9.0 Adjournment

The Chair, Bob Scully, closed the meeting at 2:00 p.m.

Submitted,

Kermit O. Phipps

Kermit O. Phipps -Secretary
EMC Society
TC4 Group