Technical Committee Meeting

Place: Austin Convention Center (http://www.emc2009.org)<br>Date/Time: Wednesday, 19 August 2009, Noon - 1:30PM (Lunch provided)

## 1. Welcome \& Introductions

### 1.1. $\quad$ Sign In Sheet

1.1.1. Sign-in sheet was routed to the 16 participants to the meeting and they introduced themselves and identified their organization and interest in TC3 activities. See Appendix 1 for attendees.
1.1.2. D. Southworth, Vice-chair, noted that with the absence of the Chair (Bill Strauss was called away on work travel) and Secretary (John Archer is vicechairing the TC4 which is at the same meeting time), that he was chairing the meeting and providing secretarial support, too.
2. Review of Draft Agenda (revisions highlighted) All
2.1. Draft agenda with revisions highlighted in red was reviewed, moved to accept by G. Tait, and seconded by C. Bunting, then approved by unanimous vote.
3. Announcements

Secretary (vice-chair acting)
3.1. Patent Review Slides - shown as required by EMCS board of directors.
3.2. TAC Discussion on potential new TC organization - Chair briefly discussed and then later Elya Joffe discussed in more detail the presentation which was given to TAC earlier on Monday. All members of TC3 concurred with the concept of the proposed five clusters of TCs with the addition of two new TCs on low and high frequency phenomena. R. Jost noted that the clusters should not have their TCs scheduled during the same time slots at EMC symposiums so that interaction could occur.
4. Last Meeting Minutes

Secretary (vice-chair acting)
4.1. 2008 meeting minutes were reviewed, no changes noted, then moved to accept by C. Bunting, and seconded by B. Farmer, then approved by unanimous vote.
5. Review Action Items

Secretary (vice-chair acting)

### 5.1. IEEE 473 Standard Review/Comment/Update

5.1.1. E. Joffa noted that the update files had been passed to Vil Arafiles and that he would complete the initial update that was started some time ago. Arafiles will then email out to the interested TC3 members the draft IEEE Std 473 for their review and comments. The draft to be emailed out by Nov 2009 and then comments should be sent back to him in Feb 2010. Details will be provided in the email from Arafiles.
5.2. TC3 Officer Succession
5.2.1. Elect new Secretary (2010-2012) - no volunteer at meeting :
5.2 .2 . Vice-Chair becomes Chair (D. Southworth)
5.3. Past meeting (2008) action items:

Action
Assigned to: Due:

1. Define TC3 Review committee for EM document Southworth 30 Sep 2008

Review and pass list to Vil Arafiles (Done, 6 members identified for reviews)
2. Send out the original and Draft IEEE 473, Vil Arafiles 1 Nov 2008
"Recommended Practice for an Electromagnetic
Site Survey ( 10 kHz to 10 GHz )" to TC3 for review
and comment. Comments due date in email. (OBE, not done, see new actions below)
3. Pass old TC3 Minutes for posting on TC3 web site Vil Arafiles 30 Sep 2008 to Southworth (Done and old meeting minutes now on web site)
4. 2009 Newsletter article on Urban EM Workshop Bill Strauss As required Unknown, probably not done.
6. Old Business
6.1. 2009 Paper Review Report Chair (vice-chair acting)
6.1.1. Five papers reviewed by 4 reviewers and all were approved for the 2009 EMC Symposium. TC3 members were encouraged to volunteer to review papers for the 2010 conference. If interested please email a TC3 officer. This activity usually occurs late in the year and into Feb 2010.
6.2. TC3 Subcommittees Report

Subcommittees
6.2.1. Addressed by IEEE Std 473 report above.
6.3. TC3 Web Site Activity

Secretary (vice-chair acting)
6.3.1. TC3 was updated prior to the 2009 EMC Symposium with current meeting minutes and agendas.
6.4. Review TC3 Committee 5 Year Plan Chair (vice-chair acting)
6.4.1. Addressed below in paragraph 7.1.5.
7. New Business
7.1. Symposium 2010 (Fort Lauderdale, Florida)
7.1.1. EM Technical Session Chair (vice-chair acting)
7.1.1.1. A TC3 EM session was a part of the call for papers for the 2010 conference, so EM Technical session will occur if sufficient papers are received and accepted by the review process.
7.1.2. EM Workshop Chair (vice-chair acting)
7.1.2.1. This will be skipped for 2010 and addressed in 2011.
7.1.3. EM Tutorial Chair (vice-chair acting)
7.1.3.1. It was suggested by the Chair that a tutorial be done on the IEEE Std 473 update. Another suggestion by R. Jost was to have a tutorial on EM Environment basics which could cover all types of environments (lightning, indoor, outdoor, etc.) and the measurement techniques to establish them. This would also spur interest in the TC3 activities. This was concurred that would be a good idea to follow-up. R. Jost noted that he would be willing to work on some slides for next year on this. Others are welcome to volunteer to address this area.
7.1.4. Student Activities Chair (vice-chair acting)
7.1.4.1. None planned at this time.

### 7.1.5. Update TC3 Committee 5 Year Plan Secretary (vice-chair acting)

 7.1.5.1. Addressed see attached in Appendix 2.7.1.6. Newsletter Article Secretary (vice-chair acting)
7.1.6.1. New chair (D. Southworth) will take as action to draft a newsletter article for the IEEE EMCS Newsletter about the upcoming EM Environment Tutorial.

## 8. Review Meeting Action Items

Secretary (vice-chair acting)
8.1. This meeting (2009) action items:

Action Assigned to: Due:

1. Completed initial IEEE Std 473 draft and send out for review by TC3 members who have expressed interest.
2. TC3 members send comments on IEEE Std 473 to Reviewers 12 Feb 2010 Vil Arafiles as defined in his email.
3. Submit Tutorial Proposal to EMC 2010 committee
4. Draft Tutorial slides on EM Environment basics for V. Arafiles 30 Nov 2009 next year's EMC Symposium in 2010.

Southworth 1 Nov 2009
Jost, Southworth 30 Apr 2010
9. Adjourn

Chair (vice-chair acting)
9.1. Meeting was adjourned at $1: 20 \mathrm{PM}$, as moved by R. Jost and seconded by G. Tait. (Meeting minutes drafted by D. Southworth)
9.2. Following the meeting, a special presentation was given by Professor Takeo Yoshino (University of Electro-Communications, Tokyo, Japan) on Sunspot activity and effects on radio noise, cooling of earth (as seen with the current low sunspot activity) and historical relationship to plagues, pestilence, and colder winters. We are currently in a historical very low sunspot activity period which could potentially last 100 years as have other unique times have occurred in ancient history.

NOTE: TC-3 Officers:
2010 Chair: Dave Southworth, <d.southworth @ieee.org>,
2010 Vice-Chair: John Archer, [archerj@ieee.org](mailto:archerj@ieee.org),
Past-Chair, Bill Strauss <strauss ieee@verizon.net>,
Secretary: vacant !!!! Help! ;)
Web site: http://www.ewh.ieee.org/soc/emcs/tc3
Note: TC3 web site will be updated and will be moved to a new URL:
http://www.emcs.org/committees/tc03/


TC-3 Electromagnetic Environment
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TC3 5 Year Plan

| Activity | 2009 | 2010 | 2011 | 2012 | 2013 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Session(s) Sponsored (\#) | 1 | 1 | 1 | 1 | 1 |
| Workshop(s) Sponsored (\#) | 1 | 0 | 1 | 0 | 1 |
| Tutorial(s) Sponsorer (\#) | 0 | $1^{*}$ | 0 | 1 | 0 |
| Student Activity Sponsored? (Y/N) | 0 | 0 | 0 | 0 | 0 |
| Student Contest Sponsored? (Y/N) | 0 | 0 | 0 | 0 | 0 |
| Poster Recruit Session | 0 | 1 | 0 | 0 | 1 |
| Leadership Succession | E | S | - | E | S |
| TC3 Charter Review | U | U | U | U | U |
| Newsletter | $Y$ | $Y$ | $Y$ | $Y$ | $Y$ |

*2010 Tutorial on Basics of EM Environment \& Measurements and possibly IEEE 473 EM Measurement Practices

## Symbol Key

C = chair session
$\mathrm{N}=$ newsletter article
Updated: 20 Aug 2008
T = sponsor tutorial
Revised: 19 Aug 2009
$\mathrm{U}=$ Update if needed
W = sponsor workshop
Y / N = Yes / No
$S=$ officer succession
E = election of Secretary

