

Approved Minutes  
 IEEE-EMCS Standards Development Committee (SDCom)  
**August 17, 2009 – 8 AM - 10:45 AM**  
**August 19, 2009 – 7 AM – 8:30 AM**  
**Austin Convention Center**  
 500 East Cesar Chavez Street  
 Austin, TX 78701  
 Ph: 512-404-4000

**Chairman: Andy Drozd, [androl@aol.com](mailto:androl@aol.com)**  
**Vice Chairman: Colin Brench, [colin.brench@ieee.org](mailto:colin.brench@ieee.org)**  
**Secretary: Ed Hare, [w1rfi@arri.org](mailto:w1rfi@arri.org)**

Attendance:

Committee members	Present 8/17/2009	Present 8/19/2009
1. Andy Drozd, Chair	Y	Y
2. Colin Brench, Vice Chair	Y	N
3. Ed Hare, Secretary	Y	Y
4. Stephen Berger	Y	Y
5. Dick Ford	Y	Y
6. Fred Heather	Y	N
7. Donald Heirman	N	Y
8. Daniel Hoolihan	N	Y
9. Ghery Pettit	Y	Y
10. Ralph Showers	Y	Y
11. Kwok Soohoo	N	N
12. David Staggs	N	N
13. Donald Sweeney	Y	Y
14. Kimball Williams	Y	N
15. Kermit Phipps	Y	Y
<b>Other Attendees</b>		
1. John Norgard	Y	N
2. Elya Joffe	N	Y
3. Randy Jost	Y	Y
4. Dale Svetanoff	Y	N
5. Evan Marchman	Y	N
6. Brian Cramer	Y	Y
7. Noel Sargent	Y	N
8. Esquire Hennigan	Y	N
9. Qiubo Ye	Y	N
10. Jerry Ramie	N	Y
11. Bill Radasky	N	Y

1. The meeting was called to order on 17 August 2009 by Mr. Drozd at 8:10 AM. Those in attendance introduced themselves.
2. The Secretary presented the IEEE patent slides. No participants identified any patent issues.
3. On a motion by Mr. Pettit, seconded by Mr. Brench, the draft agenda for the meeting was approved.
4. On a motion by Mr. Pettit, seconded by Mr. Sweeney, the draft minutes from the November 2008, March 2009 and May 2009 meetings were approved.
5. The Chair outlined the scope and purposed of the SDCCom for the benefit of the guests present.
6. Mr. Norgard discussed the content of the IEEE Standards Association CD.
7. The Secretary provided or asked for status reports on SDCCom-sponsored standards.
8. Std. 139<sup>1</sup>: Measurement of RF from ISM equipment  
 Standard expires: 2011  
 WG Chair: No working group  
 PAR: None  
 Status: Current standard. No current activity. No report received.  
 Next action: Don Sweeney had reviewed the standard and reported that the content of the standard is current and it can be reaffirmed without change. The Secretary was directed to initiate a reaffirmation ballot in the 1<sup>st</sup> quarter of 2011.
9. Std. 187<sup>2</sup>: Measurement of spurious emissions from TV receivers  
 Standard expires: 2013  
 WG Chair: No working group  
 PAR: None  
 Status: Current standard. No current activity.  
 Next action: Begin evaluation for 5-year review August 2011.
10. Std. 299<sup>3</sup>: Measuring effectiveness of shielded enclosures  
 Standard expires: 2011  
 WG Chair: None  
 PAR: None  
 Status: Current standard. No current activity. No report received.  
 Action Item: The Secretary was directed to initiate reaffirmation ballot in the first quarter of 2011.  
 Action Item: Dale Svetanoff reported that the 2006 version of the standard as published by the IEEE lists the wrong Sponsor. The Secretary was directed to contact IEEE to report the error.
11. P299.1<sup>4</sup>: Measuring shielded enclosure, dimensions between 0.1m and 2m  
 Standard expires: New project  
 WG Chair: Sabrina Sarto, email: [mariasabrina.sarto@uniroma1.it](mailto:mariasabrina.sarto@uniroma1.it)  
 PAR: Expires December 2010  
 Status: May 2009: A verbal report was received from Kermit Phipps. The section on physically small enclosures is still being discussed.  
 Next action: Mr. Phipps is to email a copy of the draft to SDCCom.

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<sup>1</sup> IEEE 139 – IEEE Recommended Practice for the Measurement of Radio Frequency Emissions from Industrial, Scientific and Medical (ISM) Equipment Installed on User’s Premises.

<sup>2</sup> IEEE 187 - IEEE Standard on Radio Receivers: Open Field Method of Measurement of Spurious Radiation from FM and Television Broadcast Receivers

<sup>3</sup> IEEE 299 – IEEE Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures

<sup>4</sup> P299.1 - Standard method for Measuring the Shielding Effectiveness of Enclosures and Boxes Having Dimensions Between 0.1 m and 2 m.

12. [Std. 377](#)<sup>5</sup>: Measurement of spurious emissions from land-mobile transmitters  
Communication Transmitters  
Standard expires: 2013|  
WG Chair: Steve Berger  
PAR: None  
Status: Current standard. No current activity.  
Next action: Begin evaluation for 5 year review August 2011.
13. [Std. 473](#)<sup>6</sup>: EMC Site survey  
Standard expires: Administratively withdrawn 3 February 2006  
WG Chair: Elya Joffe  
PAR: Must be re-submitted  
Status: TC-3 has expressed interest in undertaking revisions of the Standard  
Next actions: Messrs. Joffe and Heirman took an action item to provide all of his material to TC-3 at the August symposium meeting.
14. [Std. 475](#)<sup>7</sup>: Measurement of field-disturbance sensors  
Standard expires: 2011  
WG Chair: No working group  
PAR: None  
Status: There had been previously expressed interest and need to extend range below 300 MHz. Mr. Berger reported that previous contact with the applicable manufacturers' association had elicited no response. On a motion by Mr. Pettit, seconded by Mr. Berger, the Secretary was directed to initiate a reaffirmation ballot on Std. 475 in the 4<sup>th</sup> quarter of 2009.
15. [Std. 1128](#)<sup>8</sup>: RF absorber evaluation  
Standard expires: 2011  
WG Chair: No working group  
PAR: None  
Status: Frequency range of 5 GHz is somewhat archaic  
Next action: Begin evaluation for 5 year review 8/2009. SDCom members looking for suitable WG Chair. Mr. Heirman agreed to research absorber manufacturer and provide information to Secretary for follow-up. If necessary, standard can be sent for reaffirmation ballot in early 2011.
16. [Std. 1140](#)<sup>9</sup>: Measurement of EMC field from video-display terminals  
Standard expires: 2004  
WG Chair: No working group  
PAR: None  
Status: Current standard. General consensus of SDCom is that the Standard can be allowed to be administratively withdrawn in 2009, but saving any useful information in it.  
Next steps: Secretary to report on possible use of the standard's content in other standards and technical areas.  
Action Item: Messrs. Sweeney and Hare agreed to review the standard and report to SDCom on what information could be retained in some form.

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<sup>5</sup> IEEE 377 – IEEE Recommended Practice for Measurement of Spurious Emission from Land-Mobile Communication Transmitters

<sup>6</sup> IEEE 473 - IEEE Practice for an Electromagnetic Site Survey (10kHz to 10 GHz)

<sup>7</sup> IEEE 475 - Measurement Procedure for Field-Disturbance Sensors, 300 MHz to 40 GHz

<sup>8</sup> IEEE Recommended Practice for RF Absorber Evaluation in the Range of 30MHz to 5GHz

<sup>9</sup> IEEE 1140 - Test Procedures for the Measurement of Electric and Magnetic Fields from Video Display Terminals (VDTs) from 5 Hz to 400 kHz

17. [P1302](#)<sup>10</sup>: Characterization of conductive gaskets  
 Standard expires: 2013  
 WG Chair: John Catrysse  
 PAR: None  
 Status: Current standard. No current activity.  
 Next action: Begin evaluation for 5 year review August 2011.
18. [Std. 1309](#)<sup>11</sup>: Calibration of field sensors  
 Standard expires: 2010  
 WG Chair: None  
 PAR: None. See 1309a  
 Status: See 1309a  
 Next action: See 1309a information below.
19. Std. 1309 amendment<sup>12</sup>: Calibration of field sensors – amendment.  
 Standard expires: 2010  
 WG Chair: Zhong Chen  
[PAR](#): Expires 12/31/2010  
 Status: No written report received. The SDCOM Secretary has been monitoring the occurrence of regular teleconference calls. EMC-S has formal relationship with IEC and TC-77 related to this standard. SDCOM needs report from WG Chair on status of these liaisons. Mr. Drozd agreed to contact Mr. Chen to ask about the status of the draft.  
 Next step: Secretary to report to IEEE on the change of WG chair
20. [Std. 1560](#)<sup>13</sup>: Measurement of RF power-line interference filters  
 Standard expires: 2010  
 WG Chair: Kermit Phipps  
 PAR: None  
 Status: No current activity. Mr. Phipps provided a brief report, describing a white paper he is writing, outlining the rationale for the standard.  
 Next action: Secretary to initiate reaffirmation in 1Q 2010  
 Action item: An error was noted in the Secretary’s status slide for this standard. The Secretary was directed to change the “40 GHz” in the slide to “10 GHz.”
21. [P1597.1](#)<sup>14</sup>: Validation of computer modeling simulation  
 Standard expires: 2014  
 WG Chair: Andy Drozd, email: [androl@aol.com](mailto:androl@aol.com), tel: 315-334-1163  
 PAR: None  
 Status: Published by IEEE May 18, 2009.  
 Next action: Begin evaluation for 5-year review August 2012.
22. [P1597.2](#)<sup>15</sup>: Computer modeling simulation applications  
 Standard expires: Project

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<sup>10</sup> IEEE 1302 - Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range of DC to 18GHz

<sup>11</sup> IEEE Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz

<sup>12</sup> Amendment 1 to IEEE Standard Method for the Calibration of Electromagnetic Field Sensors and Field Probes, Excluding Antennas, from 9 kHz to 40GHz: Probe characteristics, use and measurement uncertainty: Probe Use

<sup>13</sup> IEEE 1560 - Standard for Methods of Measurement of Radio-Frequency Power-Line Interference Filter in the Range of 100 Hz to 10 GHz

<sup>14</sup> IEEE P1597.1 - IEEE Standard for Validation of Computational Electromagnetics (CEM) Computer Modeling and Simulation

<sup>15</sup> IEEE P1597.2 - IEEE Recommended Practice for Computational Electromagnetics (CEM) Computer Modeling and Simulation Applications

WG Chair: Andy Drozd, email: [androl@aol.com](mailto:androl@aol.com), tel: 315-334-1163

**PAR:** Expires 2009

Status: IEEE MEC complete, with comments. Being resolved by WG by obtaining permission to use copyrighted material. A new balloting group is being formed by IEEE.

Next steps: Complete revisions as needed for MEC and submit for ballot.

**23. P1642<sup>16</sup>: Protecting publicly accessible computers from intentional EMI**

Standard expires: Project

WG Chair: Bill Radasky, email: [wradasky@aol.com](mailto:wradasky@aol.com), tel: 805-683-5681

**PAR:** Expires 12/31/2010

Status: A verbal report was given by Mr. Radasky. He reports that the Working Group has 15 active members and that over the past three months considerable new material had been introduced for consideration for the standards. He expects that the final draft will be available by the August 2010 SDCom meeting at the Symposium.

Next steps: Complete draft and provide to SDCom.

**24. P1688<sup>17</sup>: Module EMI testing**

Standard expires: Project

WG Chair: Fred Heather, email: [heather@tqci.net](mailto:heather@tqci.net)

**PAR:** Expires 2010

Status: A report was given by Mr. Heather. He reported recent meetings and reported that the draft is 90% complete. He indicated that a PAR revision would be needed because the WG had decided to change the scope of the document.

Action Item: The Secretary is to send information on revising the PAR to Mr. Heather.

**25. P1775<sup>18</sup>: BPL EMC – emissions testing and immunity testing and limits**

Note: Power and Energy Society is sponsor, EMC Society and Communications Society are co-sponsors.

Standard expires: Project

WG Chair: Aron Viner, email: [aron.viner@verizon.net](mailto:aron.viner@verizon.net), tel: 508-881-5458

**PAR:** Expires 12/31/2009

Status: This standard is sponsored by PES, with EMCS and ComSoc as cosponsors. Standard passed at sponsor ballot. The WG is resolving and rebutting comments. On the basis of a report received from one of the balloters about a phone call asking for an affirmative vote made to at least one balloter during the balloting process, on a motion by Mr. Berger, seconded by Mr. Hare, SDCom was approved to ask the IEEE to form a new balloting pool, if the witness was willing to come forward openly. Mr. Hare reported that a comment-resolution Task Group formed by the P1775 Working Group Chair had given very short consideration to over 200 comments received during the ballot and that the Task Group was passing along a recommendation to resolve these comments to the P1775 Working Group. Mr. Hare reported that there were some technical issues with the proposed resolution of some of the comments. On a motion by Mr. Hare, seconded by Mr. Berger, SDCom agreed to form an SDCom Task Group to help P1775 resolve the EMC aspects of comments received during the ballot. The Chair appointed Mr. Pettit to lead this ad hoc group.

Next steps: Mr. Drozd will continue discussions of the matter with the SASB and the sponsor. Mr. Hare was asked to prepare a technical report on the resolution of comments and present that report at the November 2009 SDCom meeting.

**26. The committee discussed and reviewed the web pages. The Secretary was instructed to eliminate the archives links and instead direct inquiries about the archives to the Secretary.**

**27. The committee discussed having a liaison to the Federal Committee on Recommended Voting Systems, Technical Guidance Committee. On a motion by Mr. Pettit, seconded by Mr. Williams, Mr. Sweeney was appointed to serve as the liaison. Mr. Sweeney abstained.**

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<sup>16</sup> IEEE 1642 - Recommended Practice for Protecting Public Accessible Computer Systems from Intentional EMI

<sup>17</sup> IEEE P1688 - Standard for Module Electromagnetic Interference (EMI) Testing

<sup>18</sup> IEEE standard on measurement methods for BPL emissions and limits and test methods for BPL immunity

28. The Committee discussed the SDCom Policies and Procedures. The Secretary informed SDCom that the IEEE had informed him that the current P&Ps were out of date. The Chair appointed Messrs. Drozd, Hare, Heather and Sweeney to review the current P&Ps and compare them with the current IEEE model and to have a draft ready for consideration for the November 2009 SDCom meeting.
29. Mr. Berger gave a brief verbal report on ANSI asc C63<sup>®</sup>. He reported that the next meeting will be in October at NIST in Boulder, CO. (See <http://www.c63.org> for information about C63<sup>®</sup>.)
30. Mr. Drozd gave a brief verbal report on possible interaction with the Canadian Standards Association on joint projects. A scheduled teleconference had to be rescheduled.
31. Mr. Berger gave a brief oral report on SCC-41. He reported that the new SCC-41 Chair is Hiroshi Harada from Japan.
32. The meeting was adjourned by the Chair at 10:45 AM, to be resumed on August 19, 2009 at 7:00 AM.
33. The meeting was called to order by Mr. the Chair on August 19, 2009 at 7:00 AM. The participants introduced themselves.
34. The Secretary presented the IEEE patent slides. No participants identified any patent issues. Several standards and projects that had been tabled from the Monday meeting were discussed, as documented above.
35. Mr. Ramie gave a presentation on the EMC aspects of the Smart Grid. After a lengthy discussion, the Chair appointed Mr. Ramie to prepare a draft presentation on the EMC aspects of the Smart Grid that SDCom intended to be presented to the IEEE P2030 Working Group developing Smart Grid standards. Messrs. Ramie, Drozd, Heirman, Cramer, Phipps and Hare agreed asked to attend the October meeting of the P2030 Working Group in or near White Plains, NY. They, along with Mr. Bill Radasky were appointed as an ad hoc study group to develop the presentation, to be presented for vote to SDCom.
36. Upcoming meeting schedule

*Note: Future meeting dates are subject to future change, so they should be used for general information only. These dates should not be used to finalize travel. Other than at the Symposium, if it meets in conjunction with the Board meeting, SDCom will generally meet the day before the meetings of the EMC-S Board of Directors. At the Symposium, SDCom traditionally meets on Monday and Wednesday mornings.*

***2009 proposed meetings of SDCom, ExCom and the EMC-S BoD***

Location: Hunstville, AL

Proposed Date: November 12, 2009

Thu, November 12: SDCom meeting, 10AM-2PM

**Email Votes between the August 19, 2009 and September 12, 2009 meetings:**

1. On September 10, 2009, Mr. Hare made a motion to have the SDCom approve a Power Point file prepared by Mr. Ramie on the EMC aspects of Smart Grid technology, as a position paper of SDCom. The motion was seconded by Mr. Pettit. The Secretary was directed to conduct an email vote with a time period of 15 days. This vote was initiated on September 10, 2009. As of September 26, 2009, the following members had voted by email to approve the motion:

Ed Hare  
Ghery Pettit  
Don Heirman  
Dave Staggs  
Dan Hoolihan  
Kwok Soohoo  
Don Sweeney

The following members did not return an email vote:

Colin Brench  
Stephen Berger  
Andy Drozd  
Dick Ford  
Ralph Showers  
Kimball Williams  
Fred Heather  
Kermit Phipps

There were insufficient votes cast to have a majority participate in the vote, so the motion did not pass.