IEEE EMC Society Standards Development and Education Committee Minutes

January 12, 2022

**Virtual
Zoom**

Chair:	**Ross Carlton**	**ross.carlton@ets-lindgren.com**
Vice Chair:	**Jens Medler**	**jens.medler@rohde-schwarz.com**
Secretary:	**Henry Benitez**	**henry@emicomply.com**

Vice President (Standards);
           Ed Hare   **w1rfi@arrl.org**
Standards Association Liaison:
           Jennifer Santulli **j.santulli@ieee.org**

Meeting start (13:00 EST)

1. **Call to Order and Roll Call**   **Chair**

   1.1. Chair's Remarks

   1.2. Meeting Logistics

   None.

   1.3. Introductions

   Members, participants and guests introductions.

   1.4. Voting Membership

   Roll call. Attendance is recorded in the Member Attendance Table.

Name	Role	Affiliation
Benitez, Henry	Secretary	ElectroMagnetic Investigations
Braxton, Tom	Member	Shure
Brench, Colin	Member	Consultant
Burnham, Karen	Member	Electro Magnetic Applications
Carlton, Ross	Chair	ETS-Lindgren
Cohen, Larry	Member	Naval Research Labs
Duffy, Alistair	Member	De Montfort University
Fanning, Craig	Member	Elite Electronic Engineering
Hare, Ed	Member	ARRL
Heather, Fred	Member	US Navy
Hoolihan, Dan	Member	Hoolihan EMC Consulting
Kim, Soo	Member	
Oliver, Mike	Member	MAJR
McLellan	Member	EMC Productivity
Medler, Jens	Vice Chair	Rohde & Schwarz
Norgard, John	Member	NASA

Pettit, Ghery	Member	Pettit EMC Consulting
Pissoort, Davy	Member	KU Leuven
Podgorski, Andrew	Member	Independent Scientist
Traver, David	Member	
Williams, Kimball	Member	DENSO
Zimmerman, Dave	Member	Spectrum EMC, LLC

1.5. Non-Voting Membership

Roll call. Attendance is recorded in the Member Attendance Table.

Name	Role	Affiliation
Santulli, Jennifer	Secretariat	IEEE Standards Association

1.6. Non-Members

Name	Affiliation
Kiger, Chad	P473 WG Chair
Lu, Lie	P2717 WG Chair
Ramie, Jerrie	ARC Technical Resources
Primiani, Valter	Universita' Politecnica Delle Marche

1.7. Quorum

Quorum requires 50% of the voting membership in attendance. With 22 voting members, 11 or more voting members are required to establish quorum. With 12 members in attendance, quorum is met.

2.   Approval of the Agenda   **Secretary**

The agenda was reviewed. A motion to approve the agenda was made by Mr. Hare and seconded my Mr. Duffy. The motion passed unanimously.

3.   Show IEEE Patent slides   **Secretary**

The patent slides were shown and all in attendance agreed to abide by the patent policies. No issues were raised.

ADMINISTRATIVE ITEMS FOR ACTION

4.   Approval of the Minutes of the Previous Meeting   **Secretary**

After a review of the previous minutes, a correction was made in item 15 to change "TC77B" to "SC77B". A motion to approve the minutes of the meeting on August 16, 2021 was made by Mr. Hare and seconded my Mr. Benitez. The motion passed unanimously.

5.   **Membership**

SDECom considered the application of a new voting member – Mr. Andrew Podgorski. After due discussion and consideration, a motion was made by Mr. Fanning to accept Mr. Podgorski's application. The motion was seconded by Mr. Braxton. The motion passed unanimously.

6.   **Actions of the Previous Meeting**   **Secretary**

The action items were reviewed and their status was updated. Refer to the Action Items table at the end of these minutes.

7.   **Policies & Procedures of the SDECom**

The draft SDECom P&Ps are waiting AudCom meeting on January 27th.

8.   **Optimization of the EMC Standards Committees**

The attendees discussed the current organization and options for the future. Is the organization what is needed for moving forward with limited resources. The possibilities of merging or breaking apart were discussed. SDECom may need to form a (joint) subcommittee with SACCom to formulate a plan. SACCom is currently discussing changes to the reporting of their liaisons in order to provide a more valuable product. They are also trying to attract more participation. A suggestion was made to add NIST to the list of SACCom liaisons.

AI 2022-01: Ross to provide suggestion to SACCom to seek liaison(s) at NIST.

9.   **Arrangements for Standards Week**

The attendees discussed feedback from the current Symposium and the implementation plan and content for Standards Week in Spokane. The plan is for a traditional Symposium with an integrated Standards Week with the following highlights:
- SDECom meeting, SACCom meeting, and Standards training. (Monday)
- Workshops and Tutorials (Monday & Friday)
- Working Group meetings (Tuesday – Thursday)
- IBIS Open Forum (Friday)

The Symposium may need to evolve to best utilize the available tools and respond the lagging desire to attend f2f events. Standards meetings may also need to adjust. It is questionable as to whether a virtual WG can replicate the performance on an in-person WG. The trade-off seems to be between schedule and inclusiveness.

A standards workshop sponsored by PES is being planned.

Mr. Carlton is the Standards Week Chair. Please contact him for issues or suggestions.

10.   **Standards strategy**

There was no discussion on the portfolio of standards and the strategy for new development work going forward.

11. Continuity Groups

The creation and operation of continuity groups for completed standards was described.

The proposed Continuity Groups are as follows:

- Emissions
  - Potential standards: 139, 187, 377
  - Potential chair: David Traver (open to discussion; availability severely limited)
- Shielding
  - Potential standards: 299, 299.1, 1302, 2715, 2716
  - Potential chair: Davy Pissoort (open to discussion; availability severely limited)
- Probes
  - Potential standards: 475, 1309
  - Potential chair: Zhong Chen (open to discussion; availability severely limited)
- Computational Electromagnetics
  - Potential standards: 1597.1, 1597.2
  - Potential chair:
- Intentional EMI
  - Potential standards: 1642
  - Potential chair: Bill Radasky (open to discussion; availability severely limited)
- EMI Risk
  - Potential standards: 1848
  - Potential chair:

AI 2022-02: Ross to present continuity group concept to TAC to see if TC's will promote participation or provide the CG membership or Chair.

12. Working closer with other IEEE Societies

There was no discussion on opportunities for developing IEEE EMC standards with other IEEE Societies, expand exposure to the library of IEEE EMC Standards, and to identify whether there are elements of best practice that can be brought to the EMC Society.

13. IEEE Standards Association

Ms. Santulli provided an update on Standards Association issues. There are no open items to address. The schedule for 2022 is out for expiring PARs.

STANDARDS DEVELOPMENT ACTIVITY FOR DISCUSSION

14. Standards Reports and Status

To receive reports from Working Groups, including reporting on any standards requiring management and the status of standards work, not otherwise covered on this agenda. The Committee is invited to discuss actions required on any existing, proposed or tentative standards projects, noting reports from active working and study groups.

The list of standards is also available on the EMCS web site.

The status of all EMC standards was briefly reviewed. The next meeting of SDECom will be devoted to reviewing the status of standards.

15. **Formation of Maintenance Working Groups for Expiring Standards**

To discuss the formation of Working Groups for standards requiring maintenance.

This topic was deferred to the next meeting of the SDECom.

16. **New Work Items**

There was no discussion on new standards or recommended practices.

17. **Reports from SDECom representation on other bodies**

There was no discussion on items associated with ANSI C63, IEC and ISO.

18. **Other IEEE Standards**

Mr. Ramie provided an update on his work with PES standards related to Smart Grid. IEEE PES C37.90.1-3 is a family of three standards defining EMC performance for Relays, etc. Mr. Ramie has been our liaison to the WG. All but C37.90.1 will be going to ballot soon. C37.90.1 is going well. P1613 completing a draft after 6 years; essentially harmonized with IEC 61850-3. Going to ballot soon. It was a difficult process but the outcome is very good.

19. **VP Standards**

No discussion at this time.

CLOSING ITEMS

20. **Any other business**

No other business was raised.

21. **Adjournment of meeting (15:03 EST)**

A motion to adjourn the meeting was made by Mr. Fanning and seconded by Mr. Hare, The motion was approved unanimously.

The next meeting of SDECom will be Thursday, February 24th from 13:00 EST to 15:00 EST.

ACTION ITEMS

AI #	Action	Owner	Assigned	Due	Status
2020-12	Check with Jerry Ramie about Chairing P&E CG.	Ross Carlton/ Ed Hare	8/3/20	N/A	Asked. Tentative positive response. Ed offers $.
2021-03	Reach out to WG Chairs on need for extension (PARs) or maintenance (Stds).	Ross Carlton/ Ed Hare	4/13/21	7/13/21	Closed 1/12/22. Extensions issued.
2021-04	Draft a PAR for Std 1775.	Ed Hare	7/13/21	N/A	Open.
2021-06	Download a presentation from the ILN to report on style, content and production values.	Ed Hare	7/13/21	8/16/21	Closed 1/12/22. Overtaken by events.
2021-09	Contact the Chair of the WG for P2838 for a response on similarity to other standards.	Ross Carlton	7/13/21	8/16/21	Has met at least twice in last 2 years. Inquire about next WG meeting.
2021-11	Work with WG Chairs to request extensions by 8/1.	Ross Carlton	7/13/21	8/16/21	Closed 1/12/22. Extensions issued.
2021-13	Complete the revision of the P&Ps by December 2021.	Ross Carlton	8/16/21	12/1/21	Closed. Completed in December. Waiting for AudCom approval at 1/27 meeting.
2021-14	Connect with Chair of P2717 to submit PAR extension request	Ross Carlton	8/16/21	12/1/21	Closed 1/12/22. Extensions issued.
2021-15	Connect with Chair of P1128 to submit PAR extension request	Ross Carlton	8/16/21	12/1/21	Closed 1/12/22. Extensions issued.
2021-16	Update the online standards list.	Ed Hare	8/16/21	1/12/22	Closed 1/12/22.
2022-01	Suggest to SACCom to seek liaison(s) at NIST	Ross Carlton	1/12/22	5/1/22	New
2022-02	Present continuity group concept to TAC to see if TC's will promote participation or provide the CG membership or Chair.	Ross Carlton	1/12/22	8/15/22	New

MEMBER ATTENDANCE

Committee Member	Meeting Date											
	210816	220112										
Voting												
Benitez, Henry	E	X										
Braxton, Tom	-	X										
Brench, Colin	X	X										
Burnham, Karen	X	-										
Carlton, Ross	X	X										
Cohen, Larry	-	-										
Duffy, Alistair	-	X										
Fanning, Craig	X	X										
Hare, Ed	X	X										
Heather, Fred	-	-										
Hoolihan, Dan	-	-										
Oliver, Mike	-	-										
McLellan, Joanna	-	-										
Medler, Jens	-	X										
Norgard, John	X	-										
Pettit, Ghery	E	X										
Pissoort, Davy	E	X										
Podgorski, Andrew	X	X										
Traver, David	E	E										
Williams, Kimball	-	X										
Zimmerman, Dave	-	-										
Non-Voting												
Santulli, Jennifer	X	X										

X = Attended

E = Excused absence