

# IEEE EMC Society Standards Development & Education Committee (SDECom)

## Meeting Minutes

October 24, 2023

Virtual (WebEx)

**Chair:** Alistair Duffy [apd@dmu.ac.uk](mailto:apd@dmu.ac.uk)  
**Vice Chair:** Jens Medler [jens.medler@rohde-schwarz.com](mailto:jens.medler@rohde-schwarz.com)  
**Secretary:** Ross Carlton [ross.carlton@gibbscox.com](mailto:ross.carlton@gibbscox.com)

**Vice President (Standards):**  
Karen Burnham [karen.burnham@gmail.com](mailto:karen.burnham@gmail.com)  
**Standards Association Liaison:**  
Patricia Roder [p.roder@ieee.org](mailto:p.roder@ieee.org)

**Meeting start: 08:05 PDT (UTC/GMT -7 hours)**

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

#### 1.1. Chair's Remarks

The Chair called the meeting to order at 08:00 PDT.

#### 1.2. Introductions

Members, participants, and guests introduced themselves.

#### 1.3. Voting Membership

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

Name	Role	Affiliation
Anderson, Stephen	Member	ARRL
Benitez, Henry	Secretary	ElectroMagnetic Investigations
Braxton, Tom	Member	Shure
Burnham, Karen	Member	Electro Magnetic Applications
Carlton, Ross	Secretary	Gibbs & Cox
Chen, Zhong	Member	ETS-Lindgren
Duffy, Alistair	Chair	De Montfort University
Fanning, Craig	Member	Elite Electronic Engineering
Festa, Domenico	Member	IBD
Heather, Fred	Member	US Navy
Hoolihan, Dan	Member	Hoolihan EMC Consulting
Medler, Jens	Vice Chair	Rohde & Schwarz
Morse, Willaim	Member	Schweitzer Engineering Labs
Norgard, John	Member	NASA
Pettit, Ghery	Member	Pettit EMC Consulting
Pissoort, Davy	Member	KU Leuven
Podgorski, Andrew	Member	Independent Scientist
Williams, Kimball	Member	Consultant

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### 1.4. Non-Voting Membership

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

Name	Role	Affiliation
Roder, Patricia	Secretariat	IEEE Standards Association
McLellan, Joanna	-	EMC Productivity

### 1.5. Non-Members

Name	Affiliation

### 1.6. Quorum

Quorum requires 50% of the voting membership in attendance. With 18 voting members, 9 or more voting members are required to establish a quorum. Quorum was met with 9 members in attendance.

### 2. Approval of the Agenda

Secretary

The agenda was reviewed. A motion to approve was made by Kimball and seconded by Ross. The motion was unanimously approved.

**AI 2023-09:** Jens to update the SDECom web page on a more consistent basis.

### 3. IEEE Patent Slides

Secretary

The IEEE SA Patent Policy was presented and a call for patents was made. There were no responses.

### 4. Minutes of the Previous Meeting

Secretary

The meeting minutes from 28 July 2023 and 3 August 2023 were reviewed. A motion to approve was made by Craig and seconded by Kimball. The motion was unanimously approved.

### 5. Actions of the Previous Meeting

Secretary

The action items were reviewed and updated.

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### 6. Membership

Chair

No new applications for membership were received.

Discussions have been held between SDECom leadership, TC1 and TC4, that TCs could have a formal seat or membership to provide a dedicated and perpetual link between the SDECom and the TCs. They could participate in a voting or non-voting (liaison) role. Non-voting would eliminate quorum issues. At a minimum, this would provide a specific point of contact within each TC to be copied when minutes are distributed, etc.

### *STRATEGIC ACTIVITY FOR DISCUSSION*

### 7. Policies and Procedures of SDECom

The SDECom P&Ps have been published on the website.

WG P&Ps need to be submitted to IEEE.

**AI 2023-10:** Alistair to submit the draft WG P&Ps per Pat's instructions.

### 8. Standards Strategy

Held two meetings (one at the Symposium and one virtual). Good feedback on education in general. IEEE Standards 299, 299.1 and 1560 get a lot of use by industry and should be a focus for the EMCS. SACCom is looking at increasing engagement with Global SDOs. They are planning a paid webinar on IEEE 370. This increasing focus by SACCom on education focused on usage may allow SDECom to focus educational efforts on standards development.

Kim suggested that utilizing just the standard number in discussions assumes the listener has detailed knowledge, which is probably a bad assumption. All agreed that utilizing a description using words would be helpful to all. There was discussion on offering webinars for free versus charging a fee and the benefits and consequences of each choice.

There is a desire to continue this agenda item. The main purpose of this item is to prepare for the SCRC review.

### 9. Standards Week

Observations from Gand Rapids include:

- Need to get Chairs included in Symposium Committee and Technical Program Committee meetings.
- Having the collateral meetings in a paper quick guide is a good idea.
- Better promotion of events is needed.
- Including SACCom/SDECom tutorials as normal tutorials is a good idea.

Ideas for 2024:

- Increase visibility in the program with write-ups for each event.
- Promote WG/CG to propose special sessions, workshops and tutorials.
- People that attend a standards meeting get a ticket to a happy hour on Thursday.
- "I attended a standards meeting" badge ribbon.

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- Holding a workshop for a fee. (Not interfering with C63 workshop on Friday/Saturday)

SDECom will repeat its program for Standards Week in 2024 with focus on WG and CG meetings and standards development education.

### 10. Continuity Groups

There needs to be more focus on assembling these Groups and getting them active. Discussion topics included changing the name and locating sources of funding to enable proactive engagement.

The current 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
  - Chair: Davy Pissoot
- 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: Alistair Duffy
- Intentional EMI
  - Potential standards: 1642
  - Potential chair: Bill Radasky (open to discussion; availability severely limited)
- EMI Risk
  - Potential standards: 1848
  - Potential chair: Keith Armstrong

### 11. Working closer with Other IEEE Societies

Karen has been reaching out to other IEEE Societies with no new collaborations identified yet. Discussions followed on the idea of a formal meeting with select other Societies to discuss coordination.

Current engagement includes:

- ESDA (Michael Khazinsky, Silicon Labs)
- PES (Jerry Ramie, ARC Technical Resources)

### 12. IEEE Standards Association

All SC/WG officers are required to take training on anti-trust, etc. by the end of the year.

IEEE-SA myProject has a roster tool that most WG Chairs are not using. WGs need to move their rosters to the myProject tool. People on the rosters will get an email to confirm their participation. Pat is working on getting this done by prompting the WG Chairs.

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### *STANDARDS DEVELOPMENT ACTIVITY FOR DISCUSSION*

#### **13. Standards Reports and Status**

The list of standards and their status is available on the EMCS web site.

[https://s3.us-east-2.amazonaws.com/ieeesdecom/Standards\\_Matrix.pdf](https://s3.us-east-2.amazonaws.com/ieeesdecom/Standards_Matrix.pdf)

#### **14. Standards Actions**

To discuss actions to take on standards.

- P473 “Recommended Practice for an Electromagnetic Site Survey (10 kHz to 40 GHz)”
  - Chair: Kiger
  - PAR expires at the end of 2023.
  - Draft sent to MEC.
  - Ballot group formed.
  - The PAR extension request is on the December NesCom agenda.
- P1128 “Recommended Practice for Radio-Frequency (RF) Absorber Evaluation in the Range of 30 MHz to 40 GHz” (Chen)
  - Chair: Chen
  - PAR expires at the end of 2023.
  - Maintenance is in progress.
  - The PAR extension request in December for the January NesCom agenda.
  - The latest work will be assembled.
- P1841.1 “IEEE Standard for Techniques and Measures to Manage Risks with Regard to Electromagnetic Disturbances – Machinery sector”
  - The PAR needs to be approved.
- P2717 “Passive Intermodulation Test Methods for Wireless Systems in Low Noise Environments”
  - Chair: Liu
  - PAR expires at the end of 2023.
  - Close to completing the ballot phase.
  - A 1-year extension has been submitted.
- P2718 “Guide for Near Field Characterization of Unintentional Stochastic Radiators”
  - Chair: Primiani
  - PAR expires at the end of 2023.
  - On RevCom agenda for December.
  - No extension needed.
- P2838 “Standard for Aircraft Component Lightning Strike Direct Effects Qualification”
  - Chair: Heather

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- PAR expires at the end of 2023.
- Plan to let PAR expire and restart after more progress is made.

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

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

- Std. 299-2006 “Standard Method for Measuring the Effectiveness of Shielding Enclosures” (TBD)
  - Expires 12/31/2022.
  - Maintenance being addressed by Shielding CG.
- Std. 299.1-2013 “Standard Method for Measuring the Shielding Effectiveness of Enclosures and Boxes Having Dimensions Between 0.1 and 2m” (TBD)
  - Expires 12/31/2023.
  - Maintenance being addressed by Shielding CG.
- Std. 1309-2013 “Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz” (Chen)
  - Expires 12/31/2023.
  - PAR preparation maintenance is in progress.
- Std 1560-2013 “Methods of Measurement of Radio Frequency Interference Filter Suppression Capability in the Range of 100 Hz to 10 GHz”. (TBD)
  - Expires 12/31/2023
  - No maintenance is progress.
  - Working to identify a WG Chair.

### 16. New Work Items

- PAR for P1841.1 “IEEE Standard for Techniques and Measures to Manage Risks with Regard to Electromagnetic Disturbances – Machinery sector” approved on 9/21/23.
- Joint AIAA/IEEE version of AIAA-S-121
  - There is an opportunity for a joint version of this standard.
  - All consider this a good idea.
  - Pat will connect with AIAA.

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

A report on the activities of ANSC C63 was provided by Norgard.

### 18. Other IEEE Standards

No items of note.

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**19. VP Standards**

Thanks to all!

### *CLOSING ITEMS*

**20. Any other business**

The website needs more regular maintenance. Jens has volunteered to be the Webmaster.

A PhD candidate in the Netherlands has authored a paper on “CUMULATION OF MAN-MADE RADIO NOISE (A QUEST FOR CAUSES OF THE INCREASE OF RADIO NOISE IN RESIDENTIAL AREAS)” that can be found on <https://ieeecollabratec.ieee.org/app/workspaces/9005/document/939405>. This could have an impact on how regulatory agencies set EMI limits.

**21. Adjournment of meeting (10:03 PDT)**

The next meeting of SDECom will be online on January 23, 2024.

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## ACTION ITEMS

AI #	Action	Owner	Assigned	Due	Status
2021-04	Draft a PAR for Std 1775.	Ed Hare	7/13/21	N/A	Closed as OBE.
2021-09	Contact the Chair of the WG for P2838 for a response on similarity to other standards.	R. Carlton	7/13/21	8/16/21	Closed. <del>No recent meeting or update.</del> Will attend next WG.
2022-02	Present continuity group concept to TAC to see if TC's will promote participation or provide the CG membership or Chair.	R. Carlton	1/12/22	8/5/22	Closed as OBE. <del>Open. Target for TAC at the Symposium.</del>
2022-06	Contact Z. Chen for level of maintenance required on Std. 1309-2013.	R. Carlton	2/24/2022	4/1/2022	Closed. Confirmed that Zhong can lead.
2022-07	Request Std. 1560-2013 from J. Santulli and perform initial review.	R. Carlton	2/24/2022	4/1/2022	Closed as OBE. <del>Open. Have the std. Review TBD.</del>
2022-15	Update the member list on the website	R. Carlton	8/1/22	9/1/2022	Closed
2022-16	Post the 2022 P&Ps on the website.	R. Carlton	8/1/22	9/1/2022	Closed
2022-17	Assist with new WG P&Ps.	K. Burnham	11/3/22	11/30/22	Closed
2022-18	Motion and vote of PAR extensions and ballot approval.	R. Carlton	11/3/22	11/30/22	Closed
2022-19	Review and connect with TC-4 on maintenance of Std 1560-2013.	R. Carlton	11/3/22	2/28/23	Closed as OBE. <del>Open</del>
2022-20	Initiate contact with PES on a joint meeting to hear new RP PAR.	R. Carlton	11/3/22	1/30/23	Closed as OBE. Restart at next meeting. <del>Open</del>
2023-01	Inform Mr. Anderson and Mr. Morse of membership approval at 4/12/23 meeting.	R. Carlton	4/12/23	5/12/23	Closed
2023-02	Review and comment on Hare's draft WG P&Ps.	K. Burnham P. Roder	4/12/23	5/12/23	Closed
2023-03	Email WG Chairs to hold meetings at the Symposium.	K. Burnham R. Carlton	4/12/23	5/12/23	Closed
2023-04	Issue draft WG P&Ps for review.	R. Carlton	7/28/23	7/29/23	Closed
2023-05	Send IEEE-SA presentation to SDECom.	R. Carlton	7/28/23	8/2/23	Closed
2023-06	Send information on the RP for IEDs to SDECom	R. Carlton	7/28/23	8/2/23	Closed
2023-07	Send ASNC C63 report to SDECom.	R. Carlton	7/28/23	8/2/23	Closed
2023-08	Investigate a potential Secretaries training session for the 2024 Symposium.	K. Burnham	8/3/23	2/3/24	Open
2023-09	Update the SDECom web page on a more consistent basis.	J. Medler	10/24/23	12/31/23	Open
2023-10	Submit the draft WG P&Ps per Pat's instructions.	A. Duffy	10/24/23	11/31/23	Open



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### MEMBER ATTENDANCE

Committee Member	Meeting Date											
	210816	220112	220224	220406	220801	220804	221103	230412	230728	230803	231024	
<b>Voting</b>												
Anderson, Steve									-	-	-	
Benitez, Henry	-	X	-	X	X	X	X	X	X	X	-	
Braxton, Tom	-	X	-	-	-	-	X	X	-	X	-	
Burnham, Karen	X	-	X	X	X	-	X	X	X	X	X	
Carlton, Ross	X	X	X	X	X	X	X	X	X	X	X	
Chen, Zhong								X	-	-	-	
Duffy, Alistair	-	X	-	X	-	X	-	-	X	-	X	
Fanning, Craig	X	X	X	X	-	-	-	X	X	-	X	
Festa, Domenico	-	-	-	-	X	-	-	-	X	X	X	
Hare, Ed	X	X	X	X	X	X	X	X				
Heather, Fred	-	-	-	-	X	-	-	-	-	X	-	
Hoolihan, Dan	-	-	-	-	X	-	-	-	-	-	-	
Medler, Jens	-	X	X	-	-	-	-	X	X	-	X	
Morse, Bill									-	-	X	
Norgard, John	X	-	X	X	X	X	-	X	-	-	-	
Pettit, Ghery	-	X	X	-	X	X	-	X	-	-	X	
Pissoort, Davy	-	X	-	X	X	X	-	-	X	X	-	
Podgorski, Andrew	X	X	X	-	X	X	X	X	X	-	-	
Williams, Kimball	-	X	X	X	X	X	-	X	-	X	X	
<b>Non-Voting</b>												
Santulli, Jennifer	X	X	X	X	X	X	X	-	-	-	-	
Roder, Patricia	-	-	-	-	-	-	-	X	X	X	X	

X = Attended