

# IEEE EMC Society

## Standards Development & Education Committee (SDECom)

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### Meeting Minutes

July 30, 2024

Virtual (WebEx only)

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:  
Jennifer Santulli [j.santulli@ieee.org](mailto:j.santulli@ieee.org)

Meeting start: 07:04 PDT (UTC/GMT -8 hours)

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

##### 1.1. Chair's Remarks

##### 1.2. A Moment of Silence for Dom Festa

##### 1.3. Introductions

##### 1.4. Voting Membership

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

| Name              | Role       | Affiliation                    |
|-------------------|------------|--------------------------------|
| Anderson, Steve   | Member     | ARRL                           |
| Benitez, Henry    | Member     | ElectroMagnetic Investigations |
| Braxton, Tom      | Member     | IEEE EMCS Sr. Member           |
| Burnham, Karen    | Member     | EMC United                     |
| Carlton, Ross     | Secretary  | Gibbs & Cox (Leidos)           |
| Chen, Zhong       | Member     | ETS-Lindgren                   |
| Duffy, Alistair   | Chair      | De Montfort University         |
| Fanning, Craig    | Member     | Elite Electronic Engineering   |
| Heather, Fred     | Member     | US Navy                        |
| Hoolihan, Dan     | Member     | Hoolihan EMC Consulting        |
| Medler, Jens      | Vice Chair | Rohde & Schwarz                |
| Morse, Bill       | 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     | Retired                        |

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### 1.5. Non-Voting Membership

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

| Name | Role | Affiliation |
|------|------|-------------|
|      |      |             |
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### 1.6. Non-Members

| Name | Affiliation |
|------|-------------|
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### 1.7. Quorum

Quorum requires 50% of the voting membership in attendance. With 17 voting members, 9 or more voting members are required to establish a quorum. A quorum was established with 11 members in attendance.

2. **Approval of the Agenda** **Secretary**  
The agenda was reviewed. A motion to approve the agenda was made by Kim and seconded by Karen. Approval was unanimous.
3. **IEEE Patent Slides** **Secretary**  
The IEEE patent slides were reviewed. There were no questions or issues.
4. **Minutes of the Previous Meeting** **Secretary**  
The minutes of the October 2023 meeting were reviewed. A motion to approve the agenda was made by Karen and seconded by Tom. Approval was unanimous.  
The minutes of the January 2024 meeting were reviewed. A motion to approve the agenda was made by Karen and seconded by Davy. Approval was unanimous.
5. **Actions of the Previous Meeting** **Secretary**  
Action items were reviewed and updated.
6. **Membership** **Chair**  
There have been no new member applications. We lost Dom Festa, who recently passed away. His presence will be missed.

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### *STRATEGIC ACTIVITY FOR DISCUSSION*

7. **Policies and Procedures of SDECom**  
The P&Ps for SDECom and its Working Groups are posted on the SDECom website.
8. **Standards Week 2024**  
Karen provided an update on the planned activities. On Wednesday at noon, we will have a Standards recognition in the exhibit hall. On Thursday afternoon (after the SDECom meeting), we will have a Standards happy hour.
9. **Standards Strategy**  
A 5-year EMCS Strategy review is coming up. SDECom will need to consider its strategy and potentially provide input.
10. **Continuity Groups**  
Shielding, Risk Management, and CEM will meet at the Symposium.
11. **Technical Committee Engagement**  
SDECom should consider what TCs are active in standards (1,2,3,4,10,11) and create liaisons to increase engagement and to coordinate and facilitate standards development and maintenance. A Strategic Standards Meeting was held last year on 9/14/23 with the following takeaways:
  - Reaffirmation is not an option. All standards must be maintained to remain active.
  - An inactive status is only an issue for government contracts where an active standard is required.
  - While the IEEE-SA templates are comprehensive, their automation and customization is challenging for some WGs. Mastery of MS Word is required. Options to address this issue include training and/or providing a professional editor.
  - Technical Committee notes
    - TC1 supports 1848.1 and its spin-offs.
    - TC3 supports 473. They are also considering a new project on EMC Characterization.
    - TC4 supports the WGs for 299, 299.1, 1560, and 2855.
    - TC10 is working on a new project on Characterization of Dielectric Materials.
    - TC11 supports anything related to materials characterization including 299, 299.1, 1128, 2710, 2715, 2716, and 2838.
12. **Working closer with Other IEEE Societies**  
There is no SDECom update.  
SACCom is doing work to improve relations with organizations outside of IEEE. Are there opportunities that might come from closer coordination with SACCom? Consider following the work of P4006 which is focused on global noise sensing.
13. **IEEE Standards Association**  
No update.
14. **Nominations for IEEE Fellow or EMCS Awards**  
As previously noted, Standards are now a valid category for Fellow awards. Jim Muccioli is the one known Fellow related to Standards – most likely on the development of novel IC EMC test methods (SAE J1752). Members should consider attending the Fellow upgrade event at the Symposium this year.

When EMCS is seeking nominations for awards, SDECom needs to make sure we recognize significant and sustained contributors.

Of note, our Jens Medler has received a Technical Achievement Award from IEEE EMCS for work on International Standards.

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### *STANDARDS DEVELOPMENT ACTIVITY FOR DISCUSSION*

#### **15. 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)

#### **16. Standards Actions**

To discuss actions to take on standards.

- P299 “Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures”
  - TC4 is moving forward with drafting a PAR and assembling a WG for maintenance.
- P299.1 “Standard Method for Measuring the Shielding Effectiveness of Enclosures and Boxes Having all Dimensions Between 0.1 m and 2 m”
  - TC4 is seeking user input to assess interest in maintenance.
- P1128 “Recommended Practice for Radio-Frequency (RF) Absorber Evaluation in the Range of 30 MHz to 40 GHz”
  - This WG is seeking an experienced editor.
- P1560 “Standard for Methods of Measurement of Radio Frequency Power Line Interference Filter in the Range of 100 Hz to 10 GHz”
  - After further investigation, maintenance of this standard is recommended. A PAR is being drafted.
- P2838 “Standard for Aircraft Component Lightning Strike Direct Effects Qualification”
  - Meetings have been held between the IEEE-SA and the SAE regarding this standard and its scope. SAE continues to oppose its development.
- P3431 “Recommended Practice for Vehicle-Mounted Onboard Units (OBU) with Over the Air Test”

#### **17. Formation of Maintenance Working Groups for Expiring Standards**

To discuss actions to take on standards expiring at the end of 2025.

- IEEE RP1642 “IEEE Recommended Practice for Protecting Publicly Accessible Computer Systems from Intentional Electromagnetic Interference (IEMI)”
  - Prospective chair: Bill Radasky
- IEEE Standard 1688 “IEEE Standard Requirements for the Control of Electromagnetic Interference Characteristics of Replaceable Electronic Modules”
  - Prospective chair: Fred Heather
  - Seeking participants. Will leverage TCs where possible.

#### **18. New Work Items**

No discussion.

#### **19. Reports from SDECom representation on other bodies**

IEC/ISO implementing an online standards development (OSD) system. This system is intended to improve transparency and perhaps leverage AI.

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AI 2024-04: Ask Jennifer Santulli whether IEEE-SA is considering a similar system. (RC)

**20. Other IEEE Standards**

No update.

**21. VP Standards**

No additional comments.

### *CLOSING ITEMS*

**22. Any other business**

Alistair proposed to have regularly scheduled meetings on a bi-monthly basis starting in October 2024. Since this would be a change in the expected commitment, members can drop as needed.

AI 2024-05: Send email to membership to poll for best meeting day. (RC)

**23. Adjournment of meeting (09:02 PDT)**

The next meeting of SDECom will be on August 8, 2024 from 1400 until 1600 PDT.

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*ACTION ITEMS*

| AI #    | Action                                                                                                                                                             | Owner        | Assigned | Due              | Status         |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|------------------|----------------|
| 2023-08 | Investigate a potential Secretaries training session for the 2024 Symposium.                                                                                       | K. Burnham   | 8/3/23   | 2/3/24           | Closed as OBE. |
| 2024-01 | Describe recommendations for SDECom strategic focus.                                                                                                               | A. Podgorski | 01/23/24 | Oct 2024 meeting | Open           |
| 2024-02 | Establish a study group with existing CG Chairs to review how work is going and what improvements or changes are needed. Review/revise the purpose, scope of a CG. | A. Duffy     | 01/23/24 | Next meeting     | Open           |
| 2024-03 | Check with P3431 for status of addressing comments. Also send the comment list to AD.                                                                              | R. Carlton   | 07/23/24 | Next meeting     | Open           |
| 2024-04 | Ask Jennifer Santulli whether IEEE-SA is considering an online standards development system.                                                                       | R. Carlton   | 07/30/24 | Next meeting     | New            |
| 2024-05 | Send email to membership to poll for best meeting day.                                                                                                             | R. Carlton   | 07/30/24 | 10/1/24          | New            |
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### MEMBER ATTENDANCE

| Committee Member   | Meeting Date |        |        |        |        |  |  |  |  |  |  |  |
|--------------------|--------------|--------|--------|--------|--------|--|--|--|--|--|--|--|
|                    | 230728       | 230803 | 231024 | 240123 | 240730 |  |  |  |  |  |  |  |
| <b>Voting</b>      |              |        |        |        |        |  |  |  |  |  |  |  |
| Anderson, Steve    | -            | -      | -      | X      | X      |  |  |  |  |  |  |  |
| Benitez, Henry     | X            | X      | -      | -      | -      |  |  |  |  |  |  |  |
| Braxton, Tom       | -            | X      | -      | X      | X      |  |  |  |  |  |  |  |
| Burnham, Karen     | X            | X      | X      | X      | X      |  |  |  |  |  |  |  |
| Carlton, Ross      | X            | X      | X      | X      | X      |  |  |  |  |  |  |  |
| Chen, Zhong        | -            | -      | -      | -      | -      |  |  |  |  |  |  |  |
| Duffy, Alistair    | X            | -      | X      | X      | X      |  |  |  |  |  |  |  |
| Fanning, Craig     | X            | -      | X      | X      | X      |  |  |  |  |  |  |  |
| Heather, Fred      | -            | X      | -      | -      | X      |  |  |  |  |  |  |  |
| Hoolihan, Dan      | -            | -      | -      | -      | -      |  |  |  |  |  |  |  |
| Medler, Jens       | X            | -      | X      | -      | X      |  |  |  |  |  |  |  |
| Morse, Bill        | -            | -      | X      | -      | -      |  |  |  |  |  |  |  |
| Norgard, John      | -            | -      | -      | -      | -      |  |  |  |  |  |  |  |
| Pettit, Ghery      | -            | -      | X      | X      | -      |  |  |  |  |  |  |  |
| Pissoort, Davy     | X            | X      | -      | -      | X      |  |  |  |  |  |  |  |
| Podgorski, Andrew  | X            | -      | -      | X      | X      |  |  |  |  |  |  |  |
| Williams, Kimball  | -            | X      | X      | -      | X      |  |  |  |  |  |  |  |
|                    |              |        |        |        |        |  |  |  |  |  |  |  |
| <b>Non-Voting</b>  |              |        |        |        |        |  |  |  |  |  |  |  |
| Santulli, Jennifer |              |        |        |        | -      |  |  |  |  |  |  |  |
| Roder, Patricia    | X            | X      | X      | X      | -      |  |  |  |  |  |  |  |

X = Attended