



## IEEE Electromagnetic Compatibility Society Technical Committee 4: EMI Control Annual Meeting

### Minutes

**Place:** Virtual, via WebEx

**Date:** Wednesday, 28 July 2021

**Time:** 9:00 – 10:00 (Central Time)

**Room:** N/A

Meeting Commenced 9:00 Central

Attendees: Karen Burnham (vice chair), Daryl Beetner (sec.), Ed Hare, Tom Fagen, Randy Jost, Ken Hilloen, Todd Hubing, Charles Safran, Fin O'Connor, Huadong Li, Jamal Shafii, Mark Montrose, Nathan Moyer, Mike McInerney, Nathan Moyer, Monrad Monsen, Nick Orphanos, Melissa Schwager

#### 1. Welcome & Introductions (Vice-Chair)

Will Wantz, the TC4 chair, was sick and unable to attend.

Agenda was reviewed and accepted as proposed.

#### 2. Review and approval of the August 10, 2020 meeting minutes (Vice-Chair)

Minutes approved with no objections

#### 3. Review of TC-4 Charter and Membership Criteria (Vice-Chair)

The current charter (below) was discussed. There were no suggested changes.

*This committee is concerned with design, analysis and modeling to minimize undesired electromagnetic energy to achieve EMC, both emissions and immunity. Items within the scope of this committee include design techniques and implementation associated with component packaging, PCB layout, shielding, bonding, grounding or referencing, interconnects and filtering.*

#### 4. Review of the Committee Membership (Secretary and Vice Chair)

Names and email addresses of the members cannot be shared electronically because of European regulations. If your contact information has changed or you are concerned we may not have the correct information, please send your information to either Karen ([karen.burnham@ieee.org](mailto:karen.burnham@ieee.org)) or Daryl ([daryl@mst.edu](mailto:daryl@mst.edu)) and we will update our records.

#### 5. Review of the Committee Website (Vice Chair)

Users can access the website at <https://www.emcs.org/tc4tac.html>.

#### 6. Items from TAC meeting (Vice Chair)

Karen discussed a variety of items from the TAC.

#### 7. Summary of 2021 Activities (Vice Chair)



TC4 will sponsor four tutorials and workshops and the 2021 Joint International Symposium on EMC+SIPI and EMC Europe. Reviewers were thanked for their substantial effort toward reviewing papers for the Symposium. At least 16 papers were accepted – more precise numbers to come later.

## 8. Standards

### a. Review of previous status

- i. P2710 – Shielding of portable devices - Alistair Duffy (Chair)
  1. Increase in consumer market for these devices, much larger range of offerings
  2. P2710 is behind schedule
  3. Meeting as part of 2020 Symposium, August 26th
    - a. Seeking new members to reinvigorate the effort
- ii. P2715 - Planar Materials – Davy Pissoort (Chair)
  1. Ongoing for more than two years
  2. Monthly meetings
  3. Round-robin testing is on-going (6 or 7 participating labs), 95% complete, some Covid-related delays
  4. Will be asking for extension to allow to complete testing
- iii. P2716 - Board level shielding – Davy Pissoort (Chair)
  1. Round robin testing, 80% complete
  2. Document is being drafted
  3. Expected to come in after P2715
  4. Monthly meetings ongoing
- iv. P1302 – Conductive Gasket Characterization - Davy Pissoort (Chair)
  1. Document completed and voted
  2. Meeting at 2020 Symposium
  3. May form a maintenance committee
- v. P1128- RF absorber evaluation
  1. No one present for update
  2. Noted as “not being worked” in 2019
  3. SDECom is aware and will discuss at Symposium meeting
- vi. P2855-Cable Qualification Requirements – Huadong Li (Chair)
  1. Has been assigned a PAR number and meetings are on-going
  2. Charter has been approved
  3. Defining the standard scope of topics
  4. 18 voting members
  5. Next meeting: Aug 27, 2pm EST, as part of 2020 Symposium

### b. Review of Current Status

- i. P2710 – Shielding of portable devices - Alistair Duffy (Chair)

Alistair was not available to report on this standard. Indications are that the standard remains behind schedule. New members to reinvigorate the effort are welcome.
- ii. P2715 - Planar Materials – Davy Pissoort (Chair)

Davy sent a report on P2715, P2716, and P1302 (attached). Latest updates are:

  1. Ongoing for more than three years, extension of two years granted
  2. Monthly meetings



3. Draft version of the guidance document for 95% finished, doing proof-reading in the WG
4. A meeting in P2715 and P2716 is planned on Aug 18 from 0900-1100 CDT (open for everyone)
- iii. P2716 - Board level shielding – Davy Pissort (Chair)
  1. Round robin testing complete
  2. Monthly meetings ongoing
  3. Extension for two years granted
  4. Draft version of the guidance document for 95% finished
  5. A tutorial on P2716 is scheduled on August 5th
  6. A meeting in P2715 and P2716 is planned on Aug 18 from 0900-1100 CDT (open for everyone)
- iv. P1302 – Conductive Gasket Characterization - Davy Pissort (Chair)
  1. Updated document passed the ballot and is published!
  2. May form a maintenance committee
- v. P1128 - RF absorber evaluation
  1. No one present for update
  2. Standard will expire at the end of 2022.
  3. Status is nuclear. More information may come out of the STCom meeting
  4. Standard will be extended to 40 GHz.
- vi. P2855 - Cable Qualification Requirements – Huadong Li (Chair)
  1. Committee working smoothly. On schedule.
  2. Should be agreement on the first three chapters in the next few weeks. Will then move on to primary chapter which contains the bulk of the standard.
  3. 12-16 attendees at each meeting.

#### 9. **Plans for 2022 Symposium, in-person Spokane, WA August 1 - 5**

- Symposium is planned to be in-person only and will take place in Spokane, WA Aug. 1-5 2022
  - Request was made to consider hybridizing content of TC and standards meetings to accommodate those who could not attend in person
- Huadong Li may prepare a workshop on P2855 standard and cable/connector shielding effectiveness
- Karen suggested that Davy Pissort might also prepare a workshop on his standard. She will reach out to him to discuss.
- Karen plans a session on fundamentals of shielding and gasketing. Daryl and Ken will assist.

#### 10. **Other business**

- Charles asked that TC4 help promote and assist with a upcoming workshop on shielding.

**Meeting adjourned** at 9:45. 18 members attended overall.

Minutes submitted by: Daryl Beetner, Secretary, TC-4 ([daryl@mst.edu](mailto:daryl@mst.edu))



From: **Davy Pissoort** <[davy.pissoort@kuleuven.be](mailto:davy.pissoort@kuleuven.be)>  
Date: Tue, Jul 27, 2021 at 2:52 PM  
Subject: Re: TC4 Meeting with 2021 Virtual EMC Symposium  
To: Karen Burnham <[karen.burnham@gmail.com](mailto:karen.burnham@gmail.com)>

Hello Karen

Due to family obligations, I cannot join the TC4 meeting this year.

An update on the standards:

- 2715 - Planar Materials – Davy Pissoort (Co-chair)
- Ongoing for more than three years, extension of two years granted
- Monthly meetings
- Draft version of the guidance document for 95% finished, doing proof-reading in the WG
- P2716 - Board level shielding – Davy Pissoort (Chair)
- Round robin testing complete
- Monthly meetings ongoing
- Extension for two years granted
- Draft version of the guidance document for 95% finished

A tutorial on P2716 is scheduled on August 5th

A meeting in P2715 and P2716 is planned on Aug 18 from 0900-1100 CDT (open for everyone)

- P1302 – Conductive Gasket Characterization - Davy Pissoort (Co-chair)
- Updated document passed the ballot and is published!
- May form a maintenance committee

Best regards

Davy

**prof. dr. ir. Davy Pissoort**

professor electrical engineering  
head of the Flanders Mechatronics Engineering Center (FMEC)

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