



8 August 2017

Donald N. Heirman  
Chair  
Don HEIRMAN  
Consultants  
732-741-7723  
732-530-5695 (Fax)  
[d.heirman@ieee.org](mailto:d.heirman@ieee.org)

Thomas J. Fagan  
Vice Chair  
520-304-3121  
[tjfagan@ieee.org](mailto:tjfagan@ieee.org)

Monrad L. Mosen  
Secretary  
Oracle  
303-272-9612  
[monrad\\_mosen@ieee.org](mailto:monrad_mosen@ieee.org)

## **Meeting Announcement**

Committee: TC-2; Electromagnetic Compatibility (EMC) Measurements  
Place: TBA  
Date: 8 August 2017 (Tuesday)  
Time: 7:00 to 8:30 AM  
Room: Chesapeake JK  
Continental breakfast available

### **AGENDA**

- 1.0 Call to Order/Introductions
- 2.0 Approval of 2016 Minutes from IEEE EMC TC-2 meeting (26 July 2016) in Ottawa, Canada at the IEEE EMC+SIPI Symposium.
- 3.0 Committee Membership Status
  - 3.1 Removal of non-active participants from membership roster.

Membership indicates that you have attended the TC-2 committee meeting at least two (2) or more times in the last four (4) years; candidates are shown as attending a single meeting on or after 2013 and no other. By committee rules, these candidates are not members of TC-2 unless they attend a second face-to-face symposium meeting within a four year period.

All attendees will initial the sign-in roster. After the National Harbor TC-2 meeting, those that have not attended a face-to-face TC-2 meeting since 2014 will no longer be a TC-2 member but will remain on the list for one additional year to receive meeting announcements. Those that have not attended a face-to-face TC-2 meeting since 2013 will be removed from the list.

(See the 2017 membership list which is also the meeting sign-in roster.)

- 4.0 Current Symposium Activity, August 2017
  - 4.1 Symposium paper review status (top paper, top TC-2 paper, Round 2 reviewing, etc).

## 5.0 Standards Sponsorship Support Review

Below is an excerpt of information from the full matrix from the EMC Society site.

IEEE Standard	Title	Expiration Date	Status	Chair and Sponsor Contact
Std.139-1988	IEEE Recommended Practice for the Measurement of RF Emission from ISM Equipment on User's Premises	Expires: 12/31/2022	Status: Current standard: Status: Reaffirmed 2012	Sponsor contact: <a href="#">Ed Hare</a> Past Chair: Daniel Weinberg
Std. 187-2003 Project 187	Standard Measurement Methods of Emissions from FM and Television Broadcast Receivers in the Frequency Range of 9 kHz to 40 GHz	Expires: 12/31/2018	Status: Current standard Status: Reaffirmed 2008 Status: Being updated	Chair: <a href="#">David Traver</a> Vice Chair: Mark Arthurs Secretary: Sponsor contact: <a href="#">Ed Hare</a>
Std. 299-2006	IEEE Standard Method for Measuring the Effectiveness of Shielding Enclosures (ANSI Recognized)	Expires: 12/31/2022	Status: Current standard Status: Reaffirmed 2012	Sponsor contact: <a href="#">Ed Hare</a> Past Co-Chair: <a href="#">Dale Svetanoff</a> Past Co-Chair: <a href="#">Maria Sarto</a>
Std. 299.1-2013	IEEE Standard Method for Measuring the Shielding Effectiveness of Enclosures and Boxes Having Dimensions Between 0.1 and 2m	Expires: 12/31/2023	Status: Current Standard	Sponsor contact: <a href="#">Ed Hare</a> Past Chair: <a href="#">Maria Sarto</a>
Project 370	Electrical Characterization of Printed Circuit Board and Related Interconnects at Frequencies up to 50 GHz	New project	Status: In progress	Chair: <a href="#">Xiaoning Ye</a> Vice Chair: <a href="#">Sam Connor</a> Vice Chair: <a href="#">Brice Achkir</a> Secretary: <a href="#">Alistair Duffy</a> Sponsor contact: <a href="#">Ed Hare</a>
Std. 377-1980	IEEE Recommended Practice on the Measurement of Spurious Emissions from Land-Mobile Comm. Transmitters (ANSI Recognized)	Expires: 12/31/2018	Status: Current standard	Sponsor contact: <a href="#">Ed Hare</a> Past Chair: Joseph Koepfinger
Project 473	Recommended Practice for an Electromagnetic Site Survey (10 kHz to 40 GHz)	Withdrawn New project	Status: Withdrawn 2005 Status: In progress	Chair: <a href="#">Chad Kiger</a> Vice Chair: <a href="#">Karen Dyberg</a> Secretary: <a href="#">Ed Hare</a> Sponsor contact: <a href="#">Ed Hare</a>
Std. 475-2000	Measurement Procedure for Field Disturbance Sensors, 300 MHz to 40 GHz (ANSI Recognized)	Expires: 12/31/2022	Status: Current standard Status: Reaffirmed 2012 Status: See note[i]	Past Chair: Hugh Denny Sponsor contact: <a href="#">Ed Hare</a>
Std. 1128-1998	IEEE Recommended Practice for RF Absorber Evaluation in the Range of 30 MHz to 5 GHz	Expires: 12/31/2022	Status: Current standard Status: Reaffirmed 2012	Past Chair: Jose Perini Sponsor contact: <a href="#">Ed Hare</a>
Std. 1140-1994	Test Procedures for the Measurement of Electric and Magnetic Fields from Video Display Terminals from 5 Hz to 400 kHz	Expires: 12/31/2016	Status: Current standard Status: Reaffirmed: 2006 Status: See noteii[iii]	Past Chair: Dheena Moongilhan Sponsor contact: <a href="#">Ed Hare</a>
Std. 1302-2008 Project 1302	Guide for the Electromagnetic Characterization of Conductive Gaskets in the Frequency Range of DC to 40 GHz	Expires: 12/31/2018	Status: Current standard. Status: Revision in progress	Chair: <a href="#">Davy Pissoort</a> Vice Chair: Secretary: Sponsor contact: <a href="#">Ed Hare</a>
Std. 1309-2013	Standard for Calibration of Electromagnetic Field Sensors and Probes, Excluding Antennas, from 9 kHz to 40 GHz	Expires: 12/31/2023	Status: Current Standard	Past Chair: <a href="#">Zhong Chen</a> Sponsor contact: <a href="#">Ed Hare</a>
Std. 1560-2013	Methods of Measurement of Radio Frequency Interference Filter Suppression Capability in the Range of 100 Hz to 10 GHz	Expires: 12/31/2023	Status: Current standard	Past Chair: Kermit Phipps Sponsor contact: <a href="#">Ed Hare</a>
Std. 1597.1-2008 Project 1597.1	Standard for validation of CEM Computer Modeling (CEM) and Simulation	Expires: 12/31/2018	Status: Current standard Status: Revision in progress	Chair: <a href="#">Alistair Duffy</a> Vice Chair: Secretary: Sponsor contact: <a href="#">Ed Hare</a>
Std. 1597.2-2010	Recommended Practice for Computational Electromagnetics (CEM) Computer Modeling and Simulation Applications	Expires: 12/31/2020	Status: Current standard	Past Chair: <a href="#">Andy Drozd</a> Sponsor contact: <a href="#">Ed Hare</a>

Std. 1642-2015	Recommended Practice for Protecting Public Accessible Computer Systems from Intentional EMI	Expires: 12/31/2025	Status: Current Standard	Past Chair: <a href="#">Bill Radasky</a> Sponsor contact: <a href="#">Ed Hare</a>
Std. 1688-2016	Standard for Module Electromagnetic Interference (EMI) Testing	Expires: 12/31/2026	Status: Current Standard	Past Chair: <a href="#">Fred Heather</a> Sponsor contact: <a href="#">Ed Hare</a>
Project 1848	Techniques & Measures to Manage Risks With Regard to Electromagnetic Disturbances	New project	Status: In progress	Chair: <a href="#">Keith Armstrong</a> Vice Chair: <a href="#">Alistair Duffy</a> Secretary: Niklas Briest Sponsor contact: <a href="#">Ed Hare</a>
Project 1897	Resolution of Power-Line Gap-Noise Reports	New project	Status: In progress	Chair: <a href="#">Mike Gruber</a> Vice Chair: Brian Cramer Secretary: Jerry Ramie Sponsor contact: <a href="#">Ed Hare</a>
Project 2425	Standard for Electromagnetic Compatibility Testing of Electrical and Instrumentation and Control Equipment at Nuclear Power Generating Stations and Other Nuclear Facilities	New project	Status: In progress Sponsor: <a href="#">Nuclear Power Engineering Committee (PE/NPE)</a> Co-sponsor: <a href="#">EMS Society</a> , <a href="#">SDECom</a>	Chair: <a href="#">Suresh Channarasappa</a> Vice Chair: Secretary: Sponsor contact: Co-Sponsor contact: <a href="#">Ed Hare</a>
Project 2710	Electromagnetic Shielding Performance of Enclosures for Portable Electronic Devices	New project	Status: In progress	Chair: <a href="#">Alistair Duffy</a> Vice Chair: Secretary: Sponsor contact: <a href="#">Ed Hare</a>
Project 2715	Guide for the Characterization of the Shielding Effectiveness of Planar Materials	New project	Status: In progress	Chair: <a href="#">Alpesh Bhoje</a> Vice Chair: Secretary: Sponsor contact: <a href="#">Ed Hare</a>
Project 2716	Guide for the Characterization of the Effectiveness of Printed Circuit Board Level Shielding	New project	Status: In progress	Chair: <a href="#">Davy Pissourt</a> Vice Chair: Secretary: Sponsor contact: <a href="#">Ed Hare</a>

Additional details available at the below web address.

[http://www.emcs.org/standards/sdecom/Standards\\_Matrix.html](http://www.emcs.org/standards/sdecom/Standards_Matrix.html)

## 6.0 iNARTE Exam Question Review Activity

### 7.0 Future Symposium Activity

7.1 Future topics for IEEE conferences in Long Beach, CA, on July 30 – August 3, 2018.

7.2 Technical Program Responsibilities and session chair reminders

If you would like to be on the paper review committee, please let Don know what your areas of expertise are so he can send appropriate papers to you for review. We attempt to have three people review each paper.

7.3 Paper Review Deadlines for 8/2017 (Washington)

Preliminary full paper manuscript is due by \_\_ Jan 2018.

Acceptance notification will be issued by \_\_ Feb 2018.

Final paper is due \_\_ May 2018.

7.4 Paper reviewers

TC2 members are welcome to be paper reviewers. Don has a reviewer list from the past. But there is always need for reviewers.

7.5 Need session chairs

TC2 has four sessions. Don is chairing three. Dave Arnett co-chaired one with Don. Ghery Pettit and Bob Hoffman are co-chairs for the 4<sup>th</sup> session.

7.6 New membership

We are always looking for more members.

7.7 New areas of interest

8.0 Set meeting and agenda for next meeting(s)

8.1. Long Beach, CA, Tuesday, July 31, 2018

9.0 Adjournment

Monrad L. Monsen  
Secretary, IEEE EMC TC-2

---