

Special Committee 1 - Smart Grid Support and EMC Issues

Online at <https://www.emcs.org/technical-committees/sc1-smart-grid-support-and-emc-issues/>

IEEE EMC + SIPI 2024 Phoenix Symposium Unconfirmed Minutes

SC 1 Meeting Minutes

Prepared by:

Mike McInerney, Chair

Monday, 4 August 2024

Meeting from 17:30 – 18:05 (U.S. Mountain Standard Time)

1. The meeting was opened by the Chair, Mike McInerney, at 17.30 MST. Mike presented the proposed agenda, and it was approved.
2. Mike reminded the attendees of the scope of the special committee, which is to coordinate within the EMC Society on Smart Grid issues.
(<https://www.emcs.org/technical-committees/sc1-smart-grid-support-and-emc-issues/>) As a coordinating committee SC 1 does not actively solicit papers and abstracts for IEEE EMC conferences, however, if an abstract or paper clearly addresses a Smart Grid issue then SC 1 will review it.

There were ten attendees at this meeting: Mike McInerney, Bill Radasky, Piotr Lezynski, Robert Smolenski, Chris Nichols, Bill Morse, Leonardo Sandrolini, Abtin Spantman, Sebastian Koj, and Rounak Siddaiah. Leonardo and Abtin attended via Webex.

All present are considered members of SC 1. Membership may be terminated if there has been no participation for several years.

3. Mike McInerney reviewed the 2023 Grand Rapids meeting minutes and asked if there were any corrections. The minutes were approved with no comments.
4. Report on committee participation at the 2024 Phoenix EMC Symposium.
SC 1 reviewed one technical paper for the 2024 EMC Symposium.
The technical paper was reviewed by four SC 1 technical experts and was accepted with changes.

“Switching Transient Immunity Analysis of Wireless Communication Unit in Smart Substation”

(presented Wednesday in the poster session from 1:30 to 3:30 PM in the Exhibit Hall)

This paper was a Best EMC Paper Finalist.

One SC 1 tutorial, "Smart Grid And EMC Issues" was presented at the 2024 Phoenix EMC Symposium on Monday 5 August from 1:30 PM - 5:30 PM. There was upward of thirty persons attending. The following topics were presented:

Introduction to the IEEE EMC Society Special Committee 1 (SC 1) and Residential Solar, Real-World Examples
Michael McInerney

SEPA (Smart Electric Power Alliance) Electromagnetic Interoperability Issues Sub-Group (EMIISG) – Its History, Accomplishments and Status
William Radasky

IEEE Standards Update: Four Revised EMC Standards for Utility Controls Testing
Jerry Ramie

Internal EMC Issues in Low Voltage Grid with Significant Share of Prosumers
Robert Smolenski

5. Reports:

Bill Radasky reported on a scholarship in honor of Don Hierman by the United States National Committee (USNC) of the IEC (See attachment.)

Scholarship Abstract:

As a way to honor the late Don Heirman, one of the most prominent experts on electromagnetic compatibility (EMC), the USNC Communications Committee recommends offering an annual scholarship opportunity for students and young professions interested in EMC. We hope through this scholarship program, we can encourage further involvement in EMC, and keep the memory of Don Heirman alive within the USNC community.

In 2024 one \$1,000 scholarship was awarded.

6. The group discussed the possibility of having either a joint (with another TC) or separate SC-1 tutorial dealing with Smart Grid topics at the 2024 EMC Symposium. No decision was made.
7. Coordination of EMC TCs with SC 1:
Reminder for IEEE EMC Society TCs to coordinate with SC 1 when they have any Smart Grid issues. This coordination has not always been effective, but some TCs have members who have attended the annual SC 1

meeting including TC 2, TC 4, TC 5 and TC 7. We remind the TC officers of the need for coordination at the annual TAC meetings.

8. Old Business:

The group discussed the initiative started by the former chair (Don Heirman) to produce a one-page position paper on EMC standards for the smart grid. There were no volunteers to work on the paper and no decision was made on how to proceed with this initiative. This initiative will be cancelled.

9. Action Items:

None.

10. The next in-person SC 1 committee meeting will be at the 2025 IEEE EMC Symposium in Raleigh, North Carolina U.S.A.

11. Adjournment:

The meeting was adjourned at 18:05 MST.

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Attachment



DON HEIRMAN AWARD PROGRAM

ELECTROMAGNETIC COMPATIBILITY (EMC): HOW EMC AFFECTS OUR DAILY LIVES

The USNC Don Heirman Award Program gives students and young professionals the opportunity to compete in an annual paper competition on the topic of Electromagnetic Compatibility (EMC) for a **\$1,000 cash prize!**

All entries must be submitted by 5 p.m. ET on Friday, June 6, 2025 to usnc@ansi.org, and must adhere to the following requirements:

- Answer the prompt, "How does EMC impact our daily lives?" **either through a 2–5 minute video clip or a 2,000 word or less essay.** Please use the subject line "USNC Don Heirman Award Program Submission."
- Be developed and submitted electronically by an **emerging professional** (8 years or less of related experience) at a U.S. organization or **student** (enrolled full- or part-time in associate, undergraduate, or graduate programs during the period of September 2024 to June 2025 in U.S. higher education institutions)

Submissions will be reviewed by the selection panel, including EMC experts and USNC ANSI staff. All entries will receive a certificate from ANSI recognizing the submission of the paper.

Winning qualified entrants will receive a cash prize of \$1,000, a certificate, their video or essay published in the USNC Current, and recognition on the USNC webpage.



ABOUT DON HEIRMAN

Donald N. Heirman was one of the most prominent experts in the field of electromagnetic compatibility (EMC). Don chaired the international Special Committee on Radio Interference (CISPR) inside the IEC and was also at the head of the IEC Advisory Committee on EMC (ACEC). He was also an Honorary Life Member of the Technical Management Committee (TMC) of the USNC, as well as a key contributor to the Institute of Electrical and Electronics Engineers (IEEE) and the American National Standards Institute (ANSI). In November 2008, he was presented with the prestigious IEC Lord Kelvin award at the IEC General Meeting in Sao Paulo, Brazil.

ABOUT USNC

As the U.S. representative to the IEC and many related regional standardization bodies, the USNC serves as a conduit to the global standards-setting community for technical and policy positions arising in the U.S. and brings issues from the global arena to the U.S. for review, consideration, and response. The USNC is a totally integrated committee of ANSI.