



**IEEE Electromagnetic Compatibility Society  
Technical Committee 3: EM Environments Meeting**

**Meeting Minutes**

**Place: WebEx**

**Date: Friday, 13 August 2021**

**Time: 10:00 – 11:00 (EDT)**

**Meeting Commence at 10:05 EDT**

1. Introduction - Fred Heather
2. Roll Call - Karen Burnham  
Personal data will be handled in accordance with the IEEE Privacy Policy which can be found at: <https://www.ieee.org/security-privacy.html> . The TC-3 minutes will have list attendee names unless you contact the TC-3 secretary to ask for your name to not be mentioned. The information you provide in the sign-in roster (including email and company) will be used by the chapter officers for TC-3 related notifications/communications.
  - a. Fred Heather (Chari)
  - b. Karen Burnham (Secretary)
  - c. Greg Hiltz
  - d. John Campbell
  - e. Qiaolei Huang
  - f. Tom Braxton
  - g. Chad Kiger
  - h. Zhiping Yang
3. Agenda Review and Changes - Karen Burnham  
Approved
4. Past Meeting Minutes Review and approval (attached) - Karen Burnham  
Approved
5. Database Work Groups (Subcommittee)/Task Group - Fred Heather
  - a. EME Data Base Status
  - b. Still working on Access code & Excel, making it more robust to continuous updating
  - c. Expect work to continue over the next several weeks, arriving at first version soon
6. Low Cost SDR for EME measurements Work Groups (Subcommittee)/Task Group – Tom Fagan

- a. Tom not present for updates
- b. Looking for SW that allows EM data capture
- c. Zhiping suggests using it for demos, student projects
- d. Would be great if student used open source code to capture info we actually want
- e. Qiaolei would like to become involved

7. WG IEE 473 Chad Kiger

Getting feedback on certain sections of the draft. Plans to distribute new version by 9/24/21. Got feed back from Darren and Greg. Hoping for feedback on Sec 4 (Fred), and Section 5 (Tom Braxton).

8. New Business

Zhiping seeing solid improvement in # of TC3 technical papers, thanks to officers

- a. Officer Election, effective at end of this meeting, 2 year terms. Next officer election in 2023

- a. Chair – Karen Burnham
- b. Vice Chair – Fred Heather
- c. Secretary – Qiaolei Huang

- b. TC3 Purpose Affirmation

The charter of TC3, the Technical Committee on Electromagnetic Environment is to encourage research on the:

- electromagnetic environment (EME)
- development of standards for EME measurement and characterization
- natural and man-made sources of electromagnetic environment that comprise this environment
- effects of noise (unwanted portions of EME) on systems performance
- effects of international civil and military standards intended to control manmade intentional and unintentional emissions of electromagnetic energy.

- c. Feedback on 2021 Virtual Conference

Hard to juggle 4 weeks of meeting with work commitments

Q&A not well attended b/c of conflicts and inflexible scheduling

- d. Feedback on ScholarOne paper system

-Put feedback in Google Doc from TAC

- e. 2022 Symposium – Washington: Papers, Special Session, Workshops, Tutorials, Demos

-Hope to have WebEx component for in-person TC meetings

-Demo of access database, possible W&T on different databases that exist and are being developed---interest of Greg Hiltz

-Demo for SDR work

-Tutorial on EME 101

9. Action Item status – Karen Burnham



10. Next Meeting –Sept/Oct, TBD Karen Burnham

**Action Items:**

- 2020-01-15-1 Fred Heather to provide database access to select TC3 members [Ongoing]
- 2020-08-03-1 Tom Fagan to coordinate with TC6 and ARRL on Low Cost SDR measurement activities [Ongoing] –Check with Ed Hare and Sarah Seguin
- 2020-08-03-2 Tom Fagan to update instructions for Measurement Day [On hold]
- 2020-08-03-3 Karen Burnham to distribute Measurement Day information to TC3 membership and any other interested parties [On hold]
- 2020-08-03-4 Ahalya Srikanth to propose technical literature review/state of the field paper [Closed]
- 2020-09-09-1 Fred and Greg to propose workshop topic for 2020 Raleigh on standard and reference updates for high energy EME [Closed]
- 2021-08-01 Fred to determine if he can send EME database slides (from 2020 meeting) to either Qiaolei or Karen
- 2021-08-02 Fred and Tom B to provide feedback on P473
- 2021-08-03 Chad to distribute new P473 version 9/24
- 2021-08-03 Karen to coordinate with Qiaolei for SDR demo