

 January 16, 2024	Flavia Grassi Chair Politecnico di Milano, Italy	Petre-Marian Nicolae Vice-Chair University of Craiova, Romania	Sebastian Koj Secretary JADE University of Applied Sciences, Germany
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IEEE EMCS TC 7 Members

Meeting Announcement

Committee: TC 7; Low Frequency EMC
Meeting Location: Microsoft Teams
Meeting Date: Friday, January 26, 2024
Time: 3 PM CET (UTC+1, Rome, Paris, Berlin)

Agenda – TC 7 Winter Meeting

1. Welcome and introduction
2. Approval of the agenda
3. Approval of the Minutes of the previous meetings (August, 2023)
4. Planning TC7 activities for 2024
5. Update on the merging with SC5
6. Standard activity: New and old business
7. Other issues
8. Closing

The meeting will be held through the Teams platform. Please, use the following link to join the meeting:

https://teams.microsoft.com/l/meetup-join/19%3ameeting_MTM4YzM5OWMtZjgxMS00NmI1LWE5YzEtNDImOGMyMmI1OGUz%40thread.v2/0?context=%7b%22Tid%22%3a%220a17712b-6df3-425d-808e-309df28a5eeb%22%2c%22Oid%22%3a%22a6e60876-4c89-4c9f-9faf-7524b07c28c6%22%7d

Meeting Minutes

1/2. Welcome and approval of the agenda

The Chair (Flavia Grassi) welcomed the participants and shared the agenda for the meeting, which was approved.

3. Introduction of meeting participants

Participants (21):

1. Amr Madi
2. Arun Khilnani
3. Erjon Ballukja
4. Flavia Grassi (TC 7 Chair)
5. Francinei Vieira
6. Hafte Adhena
7. Hartman, Tom
8. Heyno Garbe
9. Koch, Patrick
10. Leferink, Frank
11. Leonardo Sandrolini
12. Lu Wan
13. Mike McInerney
14. Nicolae, Stefan
15. Petre-Marian Nicolae (TC 7 Vice-Chair)
16. Robert Smoleński
17. Sebastian Koj (TC 7 Secretary)
18. Struzhko, Ivan
19. Theo Laughner
20. Xiaokang Liu
21. Xinglong Wu

The participants briefly introduced themselves.

4. Recall of the minutes of the previous meetings

Minutes of the following meeting were distributed by email prior to the meeting:

- TC 7 Meeting, 02 August 2022 (Annual Meeting), held in Riverview Overlook B, DEVOS PLACE CONVENTION CENTER, Grand Rapids, MI, and via Webex

The Chair briefly recalled the minutes. The attendees approved the minutes.

5. Planning TC7 activities for 2024

During the meeting, the Chair proposed to place TC-7 activities in the framework of several conferences. The proposals were discussed as follows:

- **IEEE EMC+SIPI 2024**

Aug. 5-9, 2024, Phoenix, Arizona, USA

Proposals for Workshops/Tutorials by March 4, 2024

[Call for Submissions – EMC+SIPI 2024 Symposium \(emc2024.org\)](https://emc2024.org)

- Petre points out that only 3 papers were submitted to TC 7. One paper was submitted to SC1. Therefore, we should organize a joint technical session. Provided that all papers will be accepted.

- **Workshop:**

"Standardization in the Frequency Range up to 150 kHz" proposed by Petre, with contribution from Lu, Leonardo, Bill Radawsky(?). Mike will ask the SC1 members for contributions.

Robert mentioned to deliver a talk about adaptive power control in power grids.

In the case that the speaker has problems with the visas, the Workshop will be proposed for EMC EUROPE. Organizing a second Workshop at EMC EUROPE also could be an option.

Responsible: Lu Wan, Leonardo Sandrolini, Petre-Marian Nicolae.

- **Tutorial:**

"Lectures on EMC in Power Electronics, Electrical Systems and Electrical Transport" proposed by Flavia. Frank proposed to appoint Niek as an organizing volunteer. Sebastian offers to support the organization and can also deliver a talk about an educational DCDC-Converter Platform. Flavia will ask the SC5 officers for contributions. Frank mentioned to ask Michele from Tesla for contribution.

Responsible: Niek Moonen, Sebastian Koj.

- **EMC Europe 2024**

2-5 Sept. 2024, Bruges, Belgium

Submission deadline Workshop & Tutorial Proposals: March 25, 2024

[Timeline – EMC EUROPE 2024](#)

- **Special Session** (accepted):

"EMC for power electronic systems in electrified transportation systems", Chair: **Hafte Adhena**; Co-chair: **Ivan Struzhko**

- **Workshop (WS):**

"Standardization in the Frequency Range up to 150 kHz", if the WS is not organized during EMC+SIPI (due to visa problems), the WS will be organized at EMC Europe. It is also possible to submit a continuation or extension of the EMC+SIPI WS here. Robert has communicated that it is possible to expand his contribution.

Responsible: Lu Wan, Leonardo Sandrolini, Petre-Marian Nicolae.

- **EMC Japan/APEMC 2024**

May 20-24, 2024, Okinawa, Japan

- **Workshop:**

“Developments of Micro-Grids in Indonesia” proposed by Niek Moonen

- **EMC Compo**

Oct. 7-9 2024, Turin, Italy

Tutorial proposals by June 6, 2024 → Power electronics EMC/EMI

- **Tutorial:**

“EMC on DC Grids” proposed by Arun.

Responsible: Arun Khilnani

- **Workshop on Power Electronics for Aerospace Applications 2024 (PEASA 2024)**

- PEASA 2024 will focus on Electromagnetic Compatibility (EMC)
 - Key organizer: Dr. Cong Li and Dr. Shuo Wang, both formerly SC5.
 - Probably will be organized at GE in New York State
 - TC 7 members are involved in the organization (Niek Moonen, Patrick Koch)

7. Update on the merging with SC5

The Chair reported about the current status:

- The merging application was approved in the following instances
 - Approved by the TAC on Nov. 17, 2023
 - Approved by the BoD on Jan. 10, 2024
- Approved new TC7 name:

Electrical System and Power Electronics EMC
- Approved new charter of TC7:

This technical committee is concerned with electromagnetic disturbances in electrical systems and power electronics, including power quality, emission, immunity, and recommendations for the development of standards to deal with these disturbances. The committee is focusing on EMC issues in the electrical system and power electronics components and equipment, system level EMC hardware and software solutions. Typical applications are electronics in renewables, Smart Grid, energy efficient technologies and electric vehicles.
- Current Officers:
 - Chairs: Flavia Grassi, Shuo Wang
 - Vice chair: Petre-Marian Nicolae, Sebastian Koj, Chulsoon Hwang
 - Secretary: Sebastian Koj, Cong Li
- New officers will be elected at the annual meeting during 2024 Symposium in Phoenix, Arizona
- Special Note from BOD about 2024 symposium paper submission and review:
 - We will keep TC7 and SC5 in the submission portal and follow the existing process
 - We will have the SC5 poster sign at the 2024 symposium, but broadcast the message of merge, as well as the combined meeting time/location.

8. Standard activity: New and old business

Point not discussed.

9. Other issues

Petre is proposing to create a draft of a new IEEE Standard for low frequency after the LF Workshop.

Heyno gives the hint to contact the IEC Working Group, which is also working on Low Frequency Aspects.

Mike propose to contact Bill Radawsky for more information, as he is probably involved in the IEC activities.

10. Closing

The Chair Flavia Grassi closed the meeting at 04:04 PM CET.