

 Aug 19, 2025	Chairs Flavia Grassi Politecnico di Milano, Italy flavia.grassi@polimi.it	Vice-Chairs Petre-Marian Nicolae University of Craiova, Romania pnicolae@elth.ucv.ro	Secretaries Cong Li GE Research, USA cong.li@ieee.org
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Meeting Announcement

Committee: TC7 – Electrical Systems and Power Electronics EMC
Meeting Location: Room 302C, Raleigh Convention Center, NC, USA & Webex
Meeting Date: Tuesday, August 19, 2025
Time: 12PM – 1:30PM EDT (6PM – 7:30PM CET)

Meeting Agenda - TC7 Annual Meeting at EMCS + SIPI 2025

1. Welcome and introduction
2. Approval of the agenda
3. Introduction (Officers and Membership around the room and on Webex)
4. Approval of the Minutes of the previous meeting
5. 2024-2025 activities
6. Sub-committee Smart Grid
7. Officer election
8. Planning TC7 activities for 2025-2026
9. Updates for the REACHES EMC Roadmap Initiative
10. Standard activity: new and old business
11. Other issues
12. Closing

Meeting Minutes

The meeting started at 12:05PM EDT

1. **Welcome and introduction**
2. **Approval of the agenda**
3. **Introduction (Officers and Membership around the room and on Webex)**

The chair Flavia Grassi welcomed the participants and shared the agenda for the meeting, which was approved. A total of 26 participants attended the meeting, and each participant briefly introduced themselves.

Participants (7 remote + 19 in person)		
1. Heyno Garbe (Remote)		
2. Ali Safayet (Remote)		
3. Amr Madi (Remote)		
4. Francinei Vieira (Remote)		
5. Marian Stefan Nicolae (Remote)		
6. Petre-Marian Nicolae (Remote)		
7. Xinglong Wu (Remote)		
1. Flavia Grassi	Polimi	flavia.grassi@polimi.it
2. Niek Moonen	UT	niek.moonen@utwente.nl
3. Tom Hartman	UT	tom.hartman@utwente.nl
4. Bill Morse	SEL	bill_morse@selinc.com
5. Reuben Brown	SEL	reuben.brown@selinc.com
6. Weheng Li	NTU	rex24371@gmail.com
7. Nikhil Parsa	Ford	parsa@ford.com
8. Mike McInerney	Self	mkmcinerney@ieee.org
9. Will Radesky	Mistraltech	wradesky@aol.com
10. Karel Nienadomski	UT	k.niewiadomski@utwente.nl
11. Erjon Ballukja	UT	e.boulogne@utwente.nl
12. Daria Nemashkalo	UT	dasha.nemashkalo@utwente.nl
13. Leela Krishna Manepalli	Ford	leelakrishna.manepalli@gmail.com
14. Frank Leferink	Thales	f.leferink@ieee.org
15. Stefano Grivet-Talocia	Polito	stefano.grivet@polito.it
16. Chulsoon Hwang	Missouri S&T	hwangc@mst.edu
17. Darshan Tagare	Generac	darshan.tagare@generac.com
18. Cong Li	GE Aerospace	cong.li@ieee.org
19. Gene Saltzberg	Applied Logix	gene.saltzberg@ieee.org
Bin Lin (absent, but interested)	TE	BL@te.com
Gordie Halt (absent, but interested)	ITC Holdings corp	ghalt@itctransco.com
Jose Ortiz Gonzalez (absent, but interested)	Univ. of Warwick	J.A.Ortiz-Gonzalez@warwick.ac.uk

4. Approval of the Minutes of the previous meeting

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

- TC 7 Meeting, March 21, 2025, (March Meeting), held via Webex

Flavia briefly recalled the minutes. The attendees approved the minutes without any comments.

5. 2024-2025 activities

- IEEE EMCS + SIPI 2025, TC7 contributed 1 full day tutorial, 11 papers (7 regular session papers and 4 poster session papers), and 1 Experiment/Demonstration.

- IEEE ECCE 2025, Shuo Wang is hosting a Special Session “Advances in EMI/EMC Research in Power Conversion Systems” at IEEE ECCE 2025, Oct 19 ~ 23, 2025.
- Tutorial: “EMC in Power Electronics: Principles of EMI Generation, Aggregation and Mitigation for Electrical Systems and Electrical Transport” at EMC Europe 2025, Host: D. Nemashkalo + M. Simonazzi
- Spec. Session (Joint with TC8-SubC HV: Charles Julien): “EMC in Electrification of Aircraft” at EMC Europe 2025, Host: P. Koch + J. Lansink-Rotgerink. 8 papers to be presented.
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6. Sub-committee Smart Grid

Flavia welcomed SC1 Smart Grid Support and EMC Issues to integrate into TC7 as a sub-committee, which was approved by TAC in the August 18 meeting. SC1 chair Mike McInerney gave positive comments about this integration and expressed interests of hosting special sessions during EMCS + SIPI 2026 on smart grid topics.

Petre proposed couple subcommittee ideas, such as Smart Grid and Power Electronics, which will give more opportunities to committee members to take more initiatives. More details will be discussed during the follow up committee meeting.

7. Officer election

Flavia shared that she and Shuo Wang will step down as co-chairs after successfully fulfilled this term, Sebastian Koj decided to resign from current vice-chair and secretary role after his great service. Petre will step up as chair, and Cong will step up as Vice-Chair, the secretary role is open for candidates and call-for-application email has been sent to TC7 members on Aug 13, 2025.

TC7 officers have received 1 application from Niek Moonen, who is an assistant professor from University of Twente. Niek has been a member of the TC7 since 2015 and have contributed to many TC7 activities, including papers, tutorial sessions, etc.

Niek briefly introduced himself and expressed interest serving as TC7 new secretary, and TC7 members unanimously voted Yes for Niek’s application.

8. Planning TC7 activities for 2025-2026

- EMCS + SIPI 2026
 - o Flavia briefly introduced the EMCS + SIPI 2026 special topics and dates, couple topics are very relevant to TC7, such as Urban Air Mobility (UAM) and EMC Requirements; Emerging EMC challenges in Military and Space Applications;
 - o Mike McInerney showed interest of hosting a special session or workshop on smart grid
 - o Petre showed interests of organizing special sessions or workshop on low frequency (1kHz ~ 150kHz) standards, which will be discussed during the follow up committee meeting
 - o *During EMC-Europe 2025:* Daria Nemashkalo proposed to organize the tutorial “EMC in Power Electronics: Principles of EMI Generation and Mitigation for Electrical System and Electrical Transport”
- APEMC 2026

- Flavia briefly introduced this conference and dates, the closest due date is Special Session proposal on Oct 3, 2025.
- In the next meeting, APEMC will be discussed as a potential TC7 meeting site.
- EMC Europe 2026
 - Flavia briefly introduced the conference and dates, and Niek will be the general chair of this conference.
 - The closest due date is Jan 12 2026 for Special Session
 - Bill Radasky proposed a TC7 meeting at EMC Europe
 - *During EMC-Europe 2025:* Daria Nemashkalo proposed to organize the tutorial “EMC in Power Electronics: Principles of EMI Generation and Mitigation for Electrical System and Electrical Transport”
 - *During EMC-Europe 2025:* Patrick Koch and Jesper Lasink-Rotgerink Propose to host a special session (Joint with TC8-SubC HV: Charles Julien): “EMC in Electrification of Aircraft” at EMC Europe 2026

9. Updates for the REACHES EMC Roadmap Initiative

Cong briefly introduced REACHES:

- REACHES stands for Roadmap for EMC in Aerospace High-Voltage Electrical Systems, and it’s a follow up to the 2024 IEEE PEASA EMC workshop that was jointly sponsored by the Power Electronics Society (PELS) & EMCS (TC7 & TC8).
- The goal of REACHES initiative is to connect with technical experts across the government, industry, and academia to define a roadmap to solve technical EMC challenges of Aerospace HV electrical systems in the areas of standards, education, simulation, testing and light weight solutions.
- The team is planning to generate a 1st draft roadmap of the roadmap in 2025, publish it in an IEEE EMC magazine paper, and begin socializing with government agencies, industry and academia to shape programs from 2026.
- REACHES may also organize special sessions or tutorials during yearly EMCS+SIPI to provide updates
- REACHES is currently endorsed by IEEE EMCS TC7 Electrical System and Power Electronics EMC, approved by the TC8 HV Subcommittee, and is in the progress of getting endorsement from TC8.

10. Standard activity: new and old business

- Daria is organizing IEEE standard 1560 “IEEE Standard for Methods of Measurement of Radio-Frequency Power-Line Interference Filter in the Range of 100 Hz to 10 GHz”. There were 60 people joined the kick off meeting and most are from PELS.
- Petre suggested low frequency EMI standard, and Bill Radasky suggested to connect with IEC TC77A and CISPR who have worked on this topic for 10+ years.

11. Other issues

Flavia mentioned that EMC Engineering Certification committee is asking all TCs to send questions. The instruction will be redistributed once again.

12. Closing - The officers Petre, Cong and Niek closed the meeting at 1:13 pm US EDT.