

IEEE EMC Society TC 7

Technical committee on **Low frequency EMC**

Report from IEEE TC7 annual meeting

Ottawa, Canada, 27th of July 2016

1. ATTENDANCE

The following members were present at the meeting: Dave Thomas (Chair), Petre-Marian Nicolae (Vice Chair), Frank Sabath, Don Heirman, Frank Leferink, Abtin Spantman, Larry Shank, Kincsley Mcrae, Flavia Grassi

7:10 opened by Dave Thomas (Chair).

The current TC7 officers were:

Chair: Dave Thomas.

Vice Chair: Petre-Marian Nicolae

Secretary: -

Dave will report to the TAC the names of the new officers.

2. Welcome and Introduction

The chairman Dave Thomas and all attendees introduced themselves and made a short description of the current activity.

3. Approval of the agenda

The agenda was accepted.

4. Recall of Minutes of meeting on August 2016

Minutes approved with changes, tele-conference did not happen due to busy schedules.

5. Working procedures

No commercial issues are addressed.

6. Membership and officers

Some memberships were removed due to the inactivity.

Officers (as on August 2015):

Chair: Dave Thomas

Vice-chair: Petre-Marian Nicolae

Secretary: Cees Keyer

(Positions elected for a two year period, between July 2014 and July 2016).

Officer progression plans (Officers agreed for a one year review):
The elections for the TC7 Chair will take place the next year, in 2017.

Vice Chair: Petre-Marian Nicolae

Secretary: Flavia Grassi

7. Follow up and update of TC 7 activity plan according to Minutes from last phone meeting in August 2015

- Aim and Scope of TC 7

The charter of TC 7, as published on the web page, was presented and discussed. Particular attention was paid to the definition of low frequency. In conclusion, was decided that the present wording of the charter of TC 7 was suitable for the aims and scope of TC 7, and should remain unchanged.

The Chair Dave Thomas provided a brief history of TC 7 for the attendees.

- The overlap with SC5 strongly suggests that SC5 should become a sub-committee of TC7.

- Action plan update:

Major Accomplishments:

- Technical session at EMC 2016 Ottawa: 3 oral papers; 5 poster papers.
- Attended special seminar EPRI April 2016 (Bucharest, 8th of April).
- TC 7 should plan to participate in the EPRI Power Quality Conference.
- Modern aspects concerning the measurement of electrical quantities in networks with a renewable source of energy; discussion about the IEC standard 61000-4-30 (3rd ed.).
- Collaboration with CIGRE JWG 4.31 in elaborating standards and developing a technical brochure 2-150 kHz.

- Identified actions with responsible individuals for several of them.

- Established that the next EMC Europe meeting should take place in Wroclaw (also including a webinar). Vice chair and Secretary will not be attendees.

- Workshops (to be agreed) at one of the following conferences: Washington 2017, APEMC 2017 and Angers EMC Europe 2017.

- Special session on Power Electronics, Power Quality and Harmonics (liaise with SC5) Washington 2017.

8. Standards

- Liaison with IEEE Standards Coordinating Committee on Power Quality (SCC-22).

- Liaison with EMC Society's Standards Development and Education Committee (SDECom).

- Working group to rewrite the Standard 1140-1994. The revised standard (will overwrite the original). There are no special requirements concerning the harmonics in smart grids. Should be established if there is interference between TC7 and SC1 Smart Grid.

(From the TC 7 Annual meeting in Dresden: Standard 1140-1994 is going to be reviewed. Standard com. wants input for the review of the standard. E and H near field test. The SC searches for a new near field test method. Real question: could we use this method to expand that to other equipment. Who is going to join the standards committee ? TC7 searches for a participant in the WG for the standard group. Anne Roc'h is interested.

Standards continued 2kHz-150 kHz, there is a need for a measurement method for E/H field emissions from the cable, there are no limits. Don looks in a public available material for the 61000-4-30.

CIGRE will compile a document from the available data, Dave is trying to create a database for the problem of sheet.

SC1 is creating a database with problems due to interference 9-150 kHz.

Anne asks what is the link between TC7 and SC1. Don is the link and gives a small explication of the SC1 smart grid).

9. Sub committees

To generate more activity, some sub-committees were created (August 2015).

9.1. Low Frequency in Renewables, Power Systems and Smart Grid

Sub-committee:

Chair: Jozhef ; Secretary: Chen

9.2. Low Frequency in Automotive, Electric Vehicles Railways, and Aircraft

Sub-committee:

Chair: Marian-Stefan Nicolae; Secretary: Anne

9.3. Low Frequency in Energy Efficient Technologies, including Electrical Drives

Sub-committee:

Chair: Ileana-Diana Nicolae; Secretary: Sorin Enache

10. Reporting from TAC-meetings

- The Chair presents the number of papers approved for IEEE EMC & SIPI 2016 in connection with each Committee (Technical and Special Committees).

- Remarks: TC 7 has a total of approved 8 papers, as follows:

- 3 papers as Accepted;
- 5 papers as Accepted with Suggested Changes;
- 1 Rejected.

(3 oral presentations and 5 poster papers in Ottawa.)

11. Liaisons

- EPRI liaison

- Cigré liaison

- Liaisons with CIGRE JWG 4.31 developing technical a brochure for 2-150 kHz.

- Liaison with IEEE Standards Coordinating Committee on Power Quality (SCC-22).

- Liaison with EMC Society's Standards Development and Education Committee (SDECom).

12. Any other issues

iNARTE – person to provide questions: Dave Thomas.

13. Date and place of next meeting

August, 2017 - Washington, DC, US.

14. Closing of the meeting

8:55 end.

No other issues were mentioned or debated.