

COMMISSION E: Electromagnetic Noise and Interference (November 2016 – October 2020)

Edited by *Tomoo Ushio (Osaka University)*

1. Summary

URSI Commission E (Electromagnetic Noise and Interference) in Japan has been holding technical meetings and sub-committee activities in collaboration with the Technical Committee on Electromagnetic Compatibility (EMCJ) of the Institute of Electronics, Information and Communication Engineers (IEICE), the Technical Committee on Electromagnetic Compatibility of the Institute of Electrical Engineers of Japan (IEEEJ-EMC), IEEE EMC Society Japan Joint Chapter and Sendai Chapter, Society of Atmospheric Electricity Japan and some related technical groups. The workshops, conferences and meetings at domestic and international level for this term are summarized as follows.

New committee members

Fifteen new committee members for Commission E of Japan National Committee (25th) were approved during the committee meeting held on 11 June 2021 on line due to the covid 19 virus spreading. New chair, vice chair and secretaries were selected as follows:

Chair: Tomoo Ushio (Osaka University)

Vice Chair: Ken Kawamata (Tohoku Gakuin University)

Secretaries: Takeshi Morimoto (Kindai University) and Kaoru Gotoh (NICT)

Academic activities in the field of man-made electromagnetic noise

1. The 40th Anniversary of the EMCJ Technical Committee

The year 2017 was the 40th anniversary of the establishment of the Technical Committee on Electromagnetic Compatibility (EMCJ), which was founded in 1977 in the Institute of Electrical and Electronics Engineers (IECE) by the late Prof. Risaburo Sato of Tohoku University as the first committee chairman. To celebrate the anniversary year, we held a series of special lectures by IEICE fellows of EMCJ

2. Regular EMCJ Meetings

The EMCJ of IEICE had several regular technical meetings every year and IEEEJ-EMC had two technical meetings in the period of October 2016 to February 2017, nine regular technical meetings in the period of September 2017 to June 2018, 6 regular technical meetings in the period of July 2018 to March 2019, and 10 regular technical meetings in the period of September 2020 to July 2021.

3. Also every year committee members are regularly attending the several international conferences and meetings related to man-made noise including EMC Europe, IEEE EMC and so on.

Domestic academic activities in the field of natural electromagnetic noise:

1. Japan Geoscience Union (JpGU) Meeting 2017 – 2019
2. Japan Geoscience Union (JpGU) Meeting 2020 (On line)
3. Society of Atmospheric Electricity of Japan (JAE) annual meeting 2018 - 2020
4. Society of Atmospheric Electricity of Japan (SAEJ) annual meeting 2021 (On line)

International academic activities in the field of natural electromagnetic noise:

1. American Geophysical Union (AGU) Fall Meeting 2016
2. American Geophysical Union (AGU) Fall Meeting 2017
3. 16th International Conference on Atmospheric Electricity (ICAE2018), Nara, Japan
4. 50th Anniversary International Workshop of Center for Space Science and Radio Engineering (SSRE) in UEC Tokyo, Japan
5. American Geophysical Union (AGU) Fall Meeting 2018
6. 2019 URSI Asia-Pacific Radio Science Conference

The keynote lecture was delivered by Prof. Tomoo Ushio (Tokyo Metropolitan University and current commission E chair in Japan).

7. American Geophysical Union (AGU) Fall Meeting 2019
8. American Geophysical Union (AGU) Fall Meeting 2020

2. Activity Report

See attached Commission E Activity Report each year.

3. References