

## Commission K (Electromagnetics in Biology & Medicine) Activity Report

March 31st, 2015 by Koichi Ito

### 1 Activity

#### 1.1 Preparatory meeting of Japanese URSI-Commission K for the 23<sup>rd</sup> term of the Science Council of Japan

- ◆ Date: January 16, 2015
- ◆ Place: Akihabara satellite campus of Tokyo Metropolitan University, Tokyo
- ◆ Topics: Scientific symposium

#### 1.2 Scientific symposium (Co-operated by the Electromagnetics in Medicine and Biology Society)

- One special lecture and six research reports were presented with 30 participants.
  - Special lecture: “NeuroEngineering: Microtechnology-based approach to neuronal systems and its application to medicine” by Jimbo, Y.. (University of Tokyo)
  - “Measurement of contact current for wireless power transfer systems” by Wake, K. *et al.* (NICT)
  - “Temperature dependence of electric constant of pig liver from 300kHz to 30MHz” by Kon, S. *et al.* (Chiba University)
  - “Brain function analysis using an MRI-compatible stimulator array” by Kim, D. *et al.* (University of Tokyo)
  - “Numerical simulation of transcranial magnetic stimulation using subject-specific brain model” by Yamamoto K. *et al.* (University of Tokyo)
  - “Development and assessment of millimeter-wave exposure apparatus *in vitro*” by Siina T. *et al.* (Tokyo Metropolitan University)
  - “Evaluation of effect of terahertz wave on cell ” Yaekashiwa, N. *et al.* (RIKEN)

#### 1.3 1<sup>st</sup> meeting of Japanese URSI-Commission K for the 23<sup>rd</sup> term of the Science Council of Japan

- ◆ Date: February 16, 2015
- ◆ Place: Akihabara satellite campus of Tokyo Metropolitan University, Tokyo
- ◆ Topics:
  - Election of the chairperson of Japanese URSI-Commission K for the 23<sup>rd</sup> term of the Science Council of Japan
    - Prof. Koichi Ito (Chiba University) was elected as the chairperson of Japanese URSI-Commission K for the 23<sup>rd</sup> term of the Science Council of Japan by a mutual vote with the members in attendance at the meeting.
  - An action policy of Japanese URSI-Commission K for the 23<sup>rd</sup> term of the Science Council of Japan.
    - Japanese URSI-Commission K for the 23<sup>rd</sup> term of the Science Council of Japan will be operated with the Electromagnetics in Medicine and Biology Society.

### 2 Associated meetings

#### 2.1 Past meetings

- 1) 2014 IEEE MTT-S International Microwave Workshop Series on RF and Wireless Technologies

for Biomedical and Healthcare Applications (IMWS-Bio 2014), London, United Kingdom, December 8-10, 2014, <http://www.imws2014.org/>

- 2) 9th International Symposium on Medical ICT, Kamakura, Japan, March 24-26, 2015, <http://www.ismict2015.org/home.html>

## **2.2 Future meetings**

- 1) URSI AT-RASC 2015, Gran Canaria, Spain, May 18-25, 2015
- 2) 15<sup>th</sup> International Congress of Radiation Research, Kyoto, Japan, May 25-29, 2015, <http://www.congre.co.jp/icrr2015/>
- 3) BioEM2015, Monterey, USA, June 14-19, 2015, <http://www.bioem2015.org/>
- 4) ICNIRP 8th International NIR Workshop, South Africa, June 27-28, 2016, <http://www.icnirp.de/upcoming.htm>