

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

### **June 2016 – September 2016**

October 21, 2016

Koichi Ito

#### **1 Activity**

There was no meeting of Japanese URSI Commission K after the last meeting in January, 2016. The next meeting will be held in January 2017.

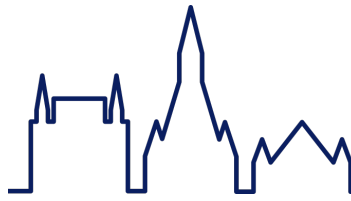
#### **2 Associated meetings**

##### **2.1 Past meetings**

- 1) BioEM2016, Gent, Belgium, 5-10 June 2016, <<http://www.bioem2016.org/>>
- 2) First workshop for future works, NICT/EMC-net, Tokyo, Japan, 5 July 2016, <[http://emc.nict.go.jp/emc-net/files/syouraikadai/syourai\\_1th\\_160705.pdf](http://emc.nict.go.jp/emc-net/files/syouraikadai/syourai_1th_160705.pdf)> (domestic)
- 3) AP-RASC2016, Seoul, Korea, 21-25 August 2016, <<http://aprasc2016.org/>>
- 4) International Symposium on rTMS Treatments, Tokyo, Japan, 24 September 2016, <<http://rtms2016.raymp.com/>>

##### **2.2 Future meetings**

- 1) Action and perception thresholds of static and ELF magnetic and electric fields and contact currents in humans, Federal Office for Radiation Protection, Oberschleissheim/Neuherberg, Germany, 26-27 October, 2016
- 2) 5th International Workshop on the Causes of Childhood Leukemia, Munich, Germany, 14-16 November, 2016, <<http://www.leukemia-workshop.de/>>
- 3) NICT/ICNIPR WS, Tokyo, Japan, 2 December 2016
- 4) BioEM2017, Hangzhou, China, June 2017
- 5) IEEE EMBC2017, Jeju Island, Korea, 11-15 July 2017, <<http://embc.embs.org/2017/>>
- 6) URSI GASS2017, Montreal, Canada, 19-26 August 2017, <<http://www.ursi2017.org/>>
- 7) The 34<sup>th</sup> annual meeting of Japanese society for thermal medicine, Kyoto, Japan, 15-16 September 2017, <<http://web.apollon.nta.co.jp/jstm34/index.html>>



# BIOEM 2016

5-10 June 2016, Het Pand, Ghent, Belgium



COST is supported by the EU Framework Programme Horizon 2020



## CALL FOR PAPERS

The BioEM2016 Local Organizing and Technical Program Committees are glad to invite you to the 2016 joint meeting of the Bioelectromagnetics Society (BEMS) and the European BioElectromagnetics Association (EBEA), co-organized for the first time by COST-EMF-MED, to be held in June 5-10, at Het Pand, Ghent, Belgium. The meeting aims at presenting and advancing high-quality research in bioelectromagnetics to address health concerns, regulations and medical applications.

The Technical Program committee invites you to submit platform presentations and posters in the following areas of interest, related to the interaction of biological systems with electromagnetic energy from static fields through terahertz radiation:

- *in vitro* studies
- *in vivo* studies
- human provocation studies
- epidemiology
- mechanisms of interaction
- theoretical and practical modelling
- clinical devices and medical applications
- new and emerging applications
- instrumentation and methodology
- dosimetry
- exposure standards
- occupational exposure
- public policy
- risk assessment

We particularly invite submissions from students. There will be a competition for the best student papers. BioEM2016 will offer travel support to a number of students. For details and to apply, see [www.bioem2016.org/student-support](http://www.bioem2016.org/student-support)

The abstract submission will be open at December 21, 2015. Submission rules can be found at [www.bioem2016.org/submission](http://www.bioem2016.org/submission)

## IMPORTANT DATES

### Paper submission closes

**February 15, 2016**

### Author notification

**March 30, 2016**

### Student Grant

### application deadline

**April 1, 2016**

### Early registration closing date

**April 15, 2016**

### Late registration ends

**May 27, 2016**

### Conference begins

**June 5, 2016**

### Conference concludes

**10 June 2016**

# 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society

**International Convention Center**

Jeju Island, Korea

**JULY 11 to 15, 2017**



<http://embc.embs.org/2017/>

**CALL FOR PAPERS**



## Smarter Technology for Healthier World

The 39th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'17) in conjunction with International Biomedical Engineering Conference of KOSOMBE will be held at International Convention Center (ICC), Jeju Island, Korea from July 11 to 15, 2017. The overall theme of the conference is "Smarter Technology for Healthier World" and will cover diverse topics of cutting-edge research in biomedical engineering, healthcare technology R&D, translational clinical research, technology transfer and entrepreneurship, and biomedical engineering education. The conference program will feature high-profile keynote lectures, minisymposia, workshops, invited sessions, oral and poster sessions, sessions for students and young professions, sessions for clinicians and entrepreneurs, and exhibitions.

### THEMES

- Biomedical Signal Processing
- Biomedical Imaging & Image Processing
- Micro- & Nano-bioengineering; Cellular & Tissue Engineering
- Computational Systems & Synthetic Biology; Multiscale Modeling
- Cardiovascular & Respiratory Systems Engineering
- Neural Engineering, Neuromuscular Systems & Rehabilitation Engineering
- Wearable Biomedical Sensors & Systems
- Bio-Robotics, Surgical Planning and Biomechanics
- Therapeutic & Diagnostic Systems, Devices and Technologies, Clinical Engineering
- Biomedical and Health Informatics
- Biomedical Engineering Education and Society
- Bringing Healthcare Innovations into the Marketplace

### IMPORTANT DATES

**Proposal submission:** 9/1/16-12/31/16

#### 4-page papers

**Submission opens:** 9/1/16

**Submission deadline:** 2/3/17

**Accept/reject notification:** 3/20/17

**Final submission deadline:** 4/3/17

#### 1-page papers

**Submission opens:** 9/1/16

**Submission deadline:** 4/3/17

**Accept/reject notification:** 4/17/17

**Final submission deadline:** 4/24/17

### KEYNOTE SPEAKERS

**Yong Jin Lee**

*Samsung Electronics Co., Ltd., KOREA*

**Mark Prausnitz**

*Georgia Institute of Technology, USA*

**Kyongtae Bae**

*University of Pittsburgh, USA*

**Vasilis Ntziachristos**

*Technische Universität München, GERMANY*

**Jing Cheng**

*Tsinghua University, CHINA*

### ORGANIZING COMMITTEE

Conference Chair: **Kwang Suk Park**

Conference Co-chair: **Yongmin Kim**

Conference Co-chair: **James Weiland**

Program Chair: **Eung Je Woo**

Program Co-chair: **Yuan-ting Zhang**

Program Co-chair: **Thomas Penzel**

