
Commission K on Electromagnetics in Biology and Medicine

by Bernard Veyret

In the last three years, Commission K has been very active in publishing articles in the RSB, sponsoring and organising scientific meetings and preparing for the General Assembly of Delhi (6 specific sessions and 3 shared sessions). It also shared the preparation of the white paper on SPS (Prof. J. Lin).

Several small meetings of national representatives of Commission K were organised during the scientific meetings of BEMS¹ and EBEA².

A close relationship was kept with WHO and in particular with the International EMF project as part of the liaison activity of Commission K within the SCT.

Radio Science Bulletin

The following papers have been edited by vice-chairman F. Prato and published in RSB:

1. Naomi M Shupak, Frank S Prato, Alex W Thomas. *Therapeutic Uses of Pulsed Magnetic-Field Exposure: A Review*. Dec 2003. 9-32
2. Stefan Engstrom. *Physical Mechanisms of Non-Thermal Extremely Low Frequency Magnetic-Field Effects*. Dec 2004. 95-106

The following paper has been edited and will be published soon in RSB:

3. Anders Ahlbom, Maria Feychting, Stefan Lönn. *Mobile phones and tumor risk: Interpretation of recent results*.

The following manuscript will be submitted in September 2005:

4. James Lin. *Review on BBB permeability and exposure to ELF and RF*.

Scientific Meetings

The following meetings have been sponsored by Commission K:

1. *EMF and Cardiac Pacemakers and Defibrillators*, Paris, France, 25 October 2002.
2. *JINA 2002*, Nice, France, 12-14 November 2002.
3. *APMC'02: Asia-Pacific Microwave Conference*, Kyoto, Japan, 19-22 November 2002.
4. *EMC Zurich 2003*, Zurich, Switzerland, 18-20 February 2003.

¹ Bioelectromagnetics Society

² European Bioelectromagnetics Association

-
5. *ISMOT 2003* - 9th Int. Symp. On Microwave and Optical Technology, Ostrava, Czech Republic, 11-15 August 2003.
 6. *International NIR Workshop and Symposium*, ICNIRP/URSI(K)/WHO, Seville, Spain, 20-24 May 2004.
 7. *MSMW'04*, Fifth Int. Kharkov Symposium on Physics and Eng of Microwaves, mm and Submm Waves, Kharkov, Ukraine, 21-26 June 2004.
 8. *EMC Wroclaw 2004*, Wroclaw, Poland, 29 June - 1 July 2004
 9. *AP-RASC 04: 2004 Asia-Pacific Radio Science Conference*, Beijing, China, 20-23 August 2004.
 10. *Radar 2004*, Toulouse, France, 19 - 21 October 2004.
 11. *JINA-04*, Nice, France, 8-10 November 2004.
 12. *EMC Zurich 2005*, Zurich, Switzerland, 15-17 February 2005.
 13. *CEFBIOS 2005* - Coherence and electromagnetic fields in biological systems, Prague, Czech Republic, 1-4 July 2005.
 14. *ISMOT 2005* - 10th International Symposium on Microwave and Optical Technology, Fukuoka, Japan, 22-25 August 2005.
 15. *International Workshop on Electromagnetic Fields at the Workplaces*, Warsaw, Poland, 5-7 September 2005.

All of the funds available to Commission K went into the organisation of the Symposium held jointly with ICNIRP³ and WHO⁴. It gathered more that 250 participants from all over the world and was a major success in terms of attendance (more that 250 participants) and scientific quality. One of the main contributions of Commission K was to organise the sessions on medical applications and on MRI and TMS⁵.

³ International Commission on Non Ionizing Radio Protection

⁴ International EMF project

⁵ Transcranial Magnetic Stimulation