

# Russian Federation

## Report on EMF Activities

### 10<sup>th</sup> International Advisory Committee on EMF

June 2005

1. The International conference “ MOBILE COMMUNICATIONAL AND HEALTH: MEDICAL, BIOLOGICAL AND SOCIAL PROBLEMS” was held in Moscow (September 20-22, 2004). The conference organizers were: WHO, Russian National Committee on Non-Ionizing Radiation Protection, Russian Academy of Sciences, Russian academy of medical sciences, Center of Electromagnetic Safety.

The representatives of the World Health Organization and International Commission on Non-Ionizing Radiation Protection, scientists from Russia, Austria, Australia, Great Britain, Germany, Italy, USA, Ukraine, France, Sweden, Japan, Korea and other countries have taken part in work of the conference. Total number of the participants of the conference was 114.

M. Repacholi, Yu. Grigoriev, Y K. Hansson Mild presented the base reports.

The large attention was given to discussion of the joint project "Confirmation of the Russian data on immunological effects of microwaves", planned to realization by the scientists of Russia and France under aegis of the WHO (scientific chiefs of a joint experiment of the professor B.Veyret and Yu. Grigoriev).

Within the framework of work of the conference two round tables - "Cellular communication and health of children" and "Electromagnetic safety of base stations of cellular communication" were carried out. The prof. Yu.Grigoriev's base report "Electromagnetic fields of cellular telephones and health of children, what expects our children in the nearest and long-term prospect?" was discussed. The memorandum was accepted: "Electromagnetic safety of mobile communication base stations". There are some positions in this Memorandum concerning to Russia.

- From a comprehensive review of the large body of scientific literature, a consensus exists that international guidelines, as well as Russian national regulations, ensure adequate protection against all established health effects of radiofrequency fields according to current knowledge level;
- However, large discrepancies exist between Russian and international standards – in particular in the frequency region of interest for mobile communication – that justify actions towards harmonization;
- To this purpose, participation of Russian scientists in the actions for world-wide harmonization of standards promoted by WHO's International EMF Project, is highly recommended;
- In setting research needs and priorities, reference should be made to WHO's research agenda; active contribution of Russian scientists to the periodical update of such agenda is sought;

2. RNCNIRP, Institute of biophysics and CEMS together with WHO conduct preparation of Workshop "Harmonization of methods and instrumentation for electromagnetic field measurements with regard to human exposure" (December 2005, Moscow, Russia).

3. The large work as agreed of protocol of joint experiment: "Confirmation of the Russian data on immunological effects of microwaves" was carried out. Principle investigators: PIOM Laboratory, ENSCPB, University of Bordeaux, France Bernard Veyret; State Research Centre - Institute of Biophysics, Moscow, Russia prof. Yury Grigoriev. Oversight: World Health Organization, Geneva, Switzerland Mike Repacholi.

4. RNCNIRP has carried out a preliminary expert estimation and discussion of the scientific programs package for a WHO at three directions: 1) harmonization of the standards, 2) mobile communication and health, 3) the influence of cellular telephones on children.

5. There are conflicts at installation of base stations. The members RNCNIRP are carrying out information work with use of mass media. The population uses two sites of RNCNIRP: [www.pole.com.ru](http://www.pole.com.ru) and [www.ecopole.ru](http://www.ecopole.ru).

6. The new publications

- ANNUAL of Russian National Committee on Non- Ionizing Radiation Protection. Moscow, "ALLANA", 2004, 259 p.
- Binh V.N. How and for what magnetobiology criticized. // ANNUAL of Russian National Committee for Non-Ionizing Radiation Protection. 2004, Moscow, "ALLANA", 195-209.
- Grigoriev Yu.G. Bioeffects of modulated EMF in the acute experiments (results of Russian researcher). // ANNUAL of Russian National Committee on Non-Ionizing Radiation Protection. Moscow, "ALLANA", 2004, 16-72.
- Grigoriev Yu.G., Shafirkin A.V., Vasin A.L. The perfection of RF EMF standardization methodology // ANNUAL of Russian National Committee on Non-Ionizing Radiation Protection. Moscow, "ALLANA", 2004, 108-150.
- Spodobaev Y.M., Maslov M.Y., Dovbysh V.N. Numerical analysis of power transformers electromagnetic fields in real arrangement. // ANNUAL of Russian National Committee on Non- Ionizing Radiation Protection. Moscow, "ALLANA", 2004, 151-163.
- Binh V.N. and M. Fillion-Robin. Theoretical and experimental evidence where present safety standards conflict with reality. In D. Clements-Croome, editor, Electromagnetic Environments and Health in Buildings, pages 391–403. Spon Press, London and New York, 2004.
- Binh V.N. Nonthermal biological effects: The problem of understanding and social sequences. In: Physics of the Interaction between living objects and the environment, V.N. Binh (ed.), Moscow, "MILTA", 2004, 43-69.
- Grigoriev O.A. // Pros. The International conference “MOBILE COMMUNICATIONAL AND HEALTH: MEDICAL, BIOLOGICAL AND SOCIAL PROBLEMS”, Moscow, September 20-22, 2004, 91-100.
- Grigoriev Yu.G. Mobile phones and children health. What should we expected in the nearest future? // Pros. The International conference “MOBILE COMMUNICATIONAL AND HEALTH: MEDICAL, BIOLOGICAL AND SOCIAL PROBLEMS”, Moscow, September 20-22, 2004, 12-65.

Chairmen of RNCNIRP,  
prof. Yu. Grigoriev