ELECTROMAGNETIC FIELDS IN THE WORKPLACE 5-7.09.2005, WARSZAWA, POLAND

(presentations accepted for oral sessions)

Session1. GENERAL ASPECTS OF EMF EXPOSURE AND REGULATIONS

- Scientific background to the ICNIRP guidelines and the EU directive on EMF Maila Hietanen, FIOH, Finland
- □ The EU Directive for occupational exposure to EMF: its purpose and its role in working life Georges Herbillon, European Commission
- □ Time- and exposure level- dependent approach to workers protection against EMF harmful exposure, worked out in Poland Jolanta Karpowicz, CIOP-PIB, Poland
- Precautionary measures for EMF exposures: justification and effectiveness Paolo Vecchia, ISS, Italy
- New data on electric current perception challenge safety limits Norbert Leitgeb, Graz University of Technology, Austria
- Protection from indirect effects due to electromagnetic interference Paolo Rosssi, Rosaria Falsaperla, ISPESL, Italy
- □ EMF field characteristics and needs for exposure assessment techniques Jolanta Karpowicz, CIOP-PIB, Poland and Kjell Hansson Mild, NIWL, Sweden

Session 2. INSTRUMENTATION AND TECHNIQUES FOR EXPOSURE ASSESSMENT

- ☐ Instrumentation for EMF exposure assessment Krzysztof Gryz, CIOP-PIB, Poland
- Principles of Quasi-static Electromagnetic Dosimetry Daniele Andreucetti, IFAC-CNR, Italy
- Principles of Electromagnetic Dosimetry and SAR evaluation for exposure to RF and MW - Luca Catarinuci, University of Lecce, Italy

Session 3. OCCUPATIONAL EXPOSURE TO EMF IN VARIOUS SETTINGS

- □ Sources for ELF, VLF, RF in offices Monica Sandström, NIWL, Sweden
- Occupational exposure to power frequency fields in some electrical transformation stations in Romania - Cristian Goiceanu, Razvan Danulescu IPH, Romania
- Frequency- and time-domain assessment of EMF existing in the vicinity of electric power installations - Krzysztof Gryz, CIOP-PIB, Poland
- Assessment of magnetic field exposure from EAS devices and metal detectors Kari Jokela, STUK, Finland
- ☐ Magnetic field near electrical welding equipment Kjell Hansson Mild, NIWL, Sweden
- High exposure magnetic induction fields of industrial induction ovens placed in the framework of the Directive 2004/40/EC of the European Parliament and of the Council -Gilbert Decat, VITO, Belgium; L. Deckx, E. De Graef, F Umicore, Belgium; Joniet, CBMT, Belgium
- Magnetic field exposures from induction heaters Philip Chadwick, MCL, UK
- □ EMF near plastic welding and glue drying machines Olle Stensson, NIWL, Sweden
- Electromagnetic fields in the electrochemical industry Eduardo Figueroa-Karlström, NIWL, Sweden
- EMF exposure assessment of railways systems' workers: the experience in Italy Paolo Rossi, Rosaria Falsaperla, ISPESL, Italy

- EMF in medicine. Occupational exposure during diagnostic and therapeutic use -Jolanta Karpowicz, Krzysztof Gryz, CIOP-PIB, Poland
- Exposure assessment of non-ionizing radiation in physiotherapy Michel Israel, M. Ivanova, P. Tschobanoff, Bulgaria
- ☐ EMF in wireless telecommunications Tomi Alanko, FIOH, Finland
- RF fields at FM/TV broadcast stations Lauri Puranen, STUK, Finland
- Carcinogenic risk in workers exposed to pulse-modulated (radar) microwave radiation -Stanisław Szmigielski, Elżbieta Sobiczewska, Roman Kubacki, WIHE, Poland
- Military radars and assessing of exposure levels of workers Roman Kubacki, WIHE, Poland

Session 4. EMF EXPOSURE ASSESSMENT AND EU DIRECTIVE PRACTICAL IMPLEMENTATION – ROUND TABLE

- □ EMF-NET scientific advice for practical guide for workers EMF exposure assessment (activities of EMF-NET MT-2) Jolanta Karpowicz, CIOP-PIB, Poland
- CENELEC activities related to the occupational EMF directive Philip Chadwick, MCL, UK, CENELEC
- Participants' presentations and open discussion

Session 5. PROBLEMS AND PERSPECTIVES FOR COMPUTATIONAL DOSIMETRY OF WORKERS EXPOSED TO EMF

- EMF-NET activities focused on computational dosimetry practical implementation for workers EMF exposure assessment - Paolo Rossi, ISPESL, Italy
- Numerical techniques for quasi-static electromagnetic dosimetry Daniele Andreucetti, IFAC-CNR, Italy
- How to Determine Compliance with the Directive's Exposure Limit Values (ICNIRP Basic Restrictions) for Electric Welding - Yngve Hamnerius, Sweden
- A 3D approach to numerical dosimetry in quasi-static conditions: problems and example of solutions - Nicola Zoppetti, IFAC-CNR, Italy
- Analysis of EMF hazards in the vicinity of dielectric heaters results of measurements and numerical simulation with various methods - Krzysztof Gryz, Jolanta Karpowicz, Marcin Molenda, Patryk Zradziński, CIOP-PIB, Poland, Andrzej Więckowski, Ernest Mielniczek, Warsaw University of Technology, Poland
- High performance FDTD for human-antenna interaction problems in the near field -Luca Catarinucci, University of Lecce, Italy
- Development of flexible human voxel models for representation of exposure in complex posture condition - Carla Malacarne, ITC-IRST, Trento, Italy
- Modelling of human body with metal implant exposed to the magnetic field Bartosz Sawicki, Jacek Starzyński, Stanisław Wincenciak, Warsaw University of Technology, Poland

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