

Organizer:

Federal Office for Radiation Protection
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Venue:

Federal Office for Radiation Protection,
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How to get thereFrom the airport:

Take the suburban railway **S-Bahn** (line **S1**) to **Feldmoching**, from there take the underground **UBahn** (line **U2/U8**) to "**Am Hart**" stop, then take **bus 294** (Garching-Hochbrück, 20 minute service, between 10 am und 3 pm hourly service) to stop "**Neuherberg, Forschungszentrum**".

Or take the suburban railway **S-Bahn** (line **S8**) to **Central Station**. From Central Station take the underground **U-Bahn** (line **U2/U8** towards **Feldmoching**) to the stop "**Am Hart**", then take **bus 294** (see above).

Location:

The Neuherberg research centre is located in the north of Munich, approximately 800 m beyond the city boundary.

Distance from city centre approximately 12km.

Distance from airport approximately 30km.



German Mobile Telecommunication Research Programme

International Workshop on Final Results of Dosimetry Projects

Federal Office for Radiation
Protection

Munich/Oberschleissheim

July 25-26 2006



Bundesamt für Strahlenschutz

German Mobile Telecommunication Research Programme

International Workshop on Final Results of Dosimetry Projects

Background

The Federal Office for Radiation Protection (BfS) is organising the **German Mobile Telecommunication Research Programme**. Detailed information on the Research Programme and on the single projects can be found at the programme website www.emf-forschungsprogramm.de.

From 2002 to 2007 a total of about 50 research projects are carried out in the areas of

- dosimetry,
- biology,
- epidemiology,
- risk communication.

Most of the projects will be finalized in 2006 or 2007. The results will be presented and discussed in the context of the current scientific knowledge at international workshops hosted by the BfS in Munich.

Objective

The aim of this workshop is to discuss the results of the **dosimetry projects** conducted within the research programme. For further information on the dosimetry projects see:

<http://www.emf-forschungsprogramm.de/home/forschung/dosimetrie>

Programme

Tuesday, 25th July

10:35 Introduction / Welcome by BfS and BMU

Session 1 Numerical Models and Computations

11:00 SAR-distribution in human beings when
11:30 using bodyworn RF transmitters
(A. Christ)

11:35 SAR-distribution in human beings exposed
12:05 to RF radiation with regard to small
structures and thermo-physiological
parameters (G. Schmid)

12:10 Lunch break 12:10 – 13:15

13:15 SAR-distribution in test animals exposed to
13:45 RF radiation (N. Kuster)

13:50 Panel discussion to session 1

Session 2 Dosimetry in Biological Studies

14:20 Exposure setups for in vivo RF experiments
14:50 using waveguides (T. Reinhardt)

14:55 Exposure setup for animal experiments
15:25 using a parabolic reflector (S. Schelkshorn)

15:30 Coffee break 15:30 – 16:00

16:00 Exposure setups for laboratory animals and
16:30 volunteer studies using bodymounted
antennas (A. Rennings)

16:35 Exposure setups for in vitro RF experiments
17:05 (N. Kuster)

17:10 Panel discussion to session 2

17:40 End of Day #1

Programme

Wednesday, 26th July

Session 3 Exposure

9:30 Individual exposure assessment in
10:00 epidemiological studies
(H.-P. Neitzke)

10:05 Exposure of the general public due to
10:35 GSM and UMTS base station transmitters
(C. Bornkessel)

10:40 Coffee break 10:40 – 11:10

11:10 Exposure of the general public due to
11:40 wireless LAN-applications in urban
environments (G. Schmid)

11:45 Exposure of the general public due to
digital broadcast transmitters compared to
analogue ones (M. Schubert)

12:20 Lunch break 12:20-13:30

13:30 Exposure from using mobile phones in
14:00 typical day-to-day situations and in partly
shielded rooms (R. Georg)

14:05 Exposure caused by wireless
14:35 technologies used for short range indoor
communication in homes and offices
(G. Schmid)

14:40 Panel discussion to session 3

15:10 Final Discussion

15:30 Close of Workshop

Rapporteur: Simon Mann