



Nichtionisierende Strahlung - Umwelt und Gesundheit
Nationales Forschungsprogramm NFP 57
Rayonnement non ionisant. Environnement et santé
Programme national de recherche PNR 57
Non-Ionising Radiation - Health and Environment
National Research Programme NRP 57

SATELLITE SYMPOSIUM

NRP 57 “Non-Ionising Radiation – Health and Environment”

A research programme of the Swiss National Science Foundation

www.nrp57.ch

Organizer: Swiss National Science Foundation, National Research Programmes
Date: 08:30-16:00, June 14, 2009
Venue: Congress Centre Davos, Davos, Switzerland
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SCHWEIZERISCHER NATIONALFONDS
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Workshop Agenda

08:30-08:45 Welcoming address (Alexander Borbély, President SC NRP 57)

MODUL 1: DOSIMETRY AND EXPOSURE ASSESSMENT

Chairs: Jørgen Bach Andersen (SC NRP 57)

08:45-09:15 Assessment of the Exposure of the Fetus to EMF in Uncontrolled Environments

Andreas Christ and Nicolas Chavannes
IT'IS Foundation, Zurich

09:15-09:45 An ELF Exposure System for Live Cell Imaging

Myles Capstick and Andreas Christ
IT'IS Foundation, Zurich

09:45-10:15 Cumulative Exposure of the Human CNS in Time and Frequency Domain

Sven Kühn and Niels Kuster
IT'IS Foundation, Zurich

10:15-10:30 COFFEE BREAK

MODUL 2: CELL BIOLOGY

Chairs: Dariusz Leszczynski (SC NRP 57)

10:30-11:00 Towards Understanding Genotoxic Effects of Non-Ionizing Radiation

Frauke Focke, Angelika Jacobs, David Schürmann and Primo Schär
Institute of Biochemistry and Genetics, Department of Biomedicine, University of Basel

11:00-11:30 RF-EMF and Stress Response:
Effect of RF-EMF on Alternative Splicing of Acetylcholinesterase

Ferial Alaeddine¹, Christophe Guionaud¹, Manuel Murbach², Niels Kuster² and Meike Mevissen¹
¹Division of Veterinary Pharmacology and Toxicology, Vetsuisse Faculty Bern, University of Bern and ²IT'IS Foundation, Zurich

11:30-12:00 Characterization of the Effects of Mobile Phone Radiation on Transgenic *Caenorhabditis elegans* Nematodes Expressing Polyglutamine Aggregation Proteins

Pierre Haldimann¹, Maude Muriset¹, Pierre Zweier², Farhad Rachidi² and Pierre Goloubinoff¹
¹Department of Plant Molecular Biology, University of Lausanne and ²Power Systems Laboratory, EPFL Lausanne

12:00-13:00 LUNCH



MODUL 3: LABORATORY STUDIES AND EPIDEMIOLOGY

Chairs: Anders Ahlbom (SC NRP 57)

- 13:00-13:30 Effects of Pulse-Modulated RF-EMF on the Human Brain:
Critical Field Parameters, Site of Interaction and Sensitivity in Early Adolescence
*Sarah Loughran¹, Marc Schmid¹, Sabine Regel¹, Alexandra Bratic¹, Manuel Murbach², Niels Kuster² and **Peter Achermann¹***
¹Institute of Pharmacology and Toxicology, University of Zurich and ²IT'IS Foundation, Zurich
- 13:30-14:00 Do UMTS Fields Affect Blood Circulation of the Human Brain?
A Near-Infrared Imaging Study
*Sonja Spichtig, Felix Scholkmann, Lydia Chin and **Martin Wolf***
Biomedical Optics Research Laboratory, Neonatology, University Hospital Zurich
- 14:00-14:30 Personal Exposure to RF-EMF in a Swiss Population Sample:
Implications for Improving Epidemiological Exposure Assessment
***Martin Röösli^{1,2}**, Patrizia Frei^{1,2}, Evelyn Mohler^{1,2}, Alfred Bürgi³, Georg Neubauer⁴, Jürg Fröhlich⁵, Charlotte Braun-Fahrländer² and Matthias Egger¹*
¹Department of Social and Preventive Medicine, University of Bern, ²Institute of Social and Preventive Medicine, University of Basel, ³ARIAS umwelt.forschung.beratung, Bern, ⁴Smart Systems Division, ARC Seibersdorf, Austria and ⁵Laboratory for EMF and Microwave Electronics, ETH Zurich
- 14:30-15:00 *COFFEE BREAK*

MODUL 4: RISK PERCEPTION

Chairs: Elisabeth Cardis (SC NRP 57)

- 15:00-15:30 What Determines the Perception of Non-Ionizing Radiation?
Evidence from Implicit Measures and Free Associations of Experts and Lay People
*Simone Dohle, Carmen Keller and **Michael Siegrist***
Institute for Environmental Decisions, Consumer Behavior, ETH Zurich
- 15:30-16:00 Dangerous Towers, Harmless Phones?
Swiss Newspaper Coverage of the Risk Associated with Non-Ionizing Radiation
***Peter J. Schulz**, Simone Keller and Nicola Diviani*
Health Care Communication Laboratory, Faculty of Communication Sciences, Università della Svizzera Italiana, Lugano
- 16:00 Final remarks (Alexander Borbély, President SC NRP 57)
- 17:00-19:00 BioEM2009 Welcome Reception:**
Courtesy of the BioEM2009 (the Bioelectromagnetics Society (BEMS) and the European BioElectromagnetics Association (EBEA)), participants of the NRP 57 satellite symposium are invited to join the reception in the Main Foyer to connect with colleagues, friends and professionals from across the world.