

## **Declaration: Scientists call for Protection from Radiofrequency Radiation Exposure**

*[Note: This includes—but is not limited to—radiofrequency radiation-emitting devices, such as cell phones and cordless phones and their base stations, Wi-Fi, broadcast antennas, smart meters and baby monitors.]*

We are scientists engaged in the study of electromagnetic fields (EMF) radiofrequency radiation (RFR) health and safety. We have serious concerns regarding Health Canada's Safety Code 6 Guideline.

### **Canada's Safety Code 6 Guideline is fundamentally flawed.**

Health Canada's Safety Code 6 is based on an obsolete account and analysis of RFR research and has disregarded or minimized certain recent studies, such as cancer, DNA damage, protein synthesis, stress response, and detrimental biological and health effects in humans that occur at RFR intensities below the existing Code 6 Guideline.

The World Health Organization classified electromagnetic fields at both extremely low frequency (2001) and radiofrequency (2011) ranges as a "Group 2B, possibly carcinogenic to humans" and included reviews and studies reporting low-intensity biological effects.

### **Canada's Safety Code 6 Guideline does not protect people.**

Currently, RF exposure guidelines in various countries (China, Russia, Italy, Switzerland), based on biological effects, are 100 times more stringent than the guidelines based on an outdated understanding of RFR that relies primarily on thermal effects that includes Health Canada's Safety Code 6. Following a recent review of Safety Code 6 (Royal Society of Canada Report entitled, "*A Review of Safety Code 6 (2013): Health Canada's Safety Limits for Exposure to Radiofrequency Fields*"), Health Canada has decided not to lower the existing guidelines and arbitrarily to include a maximum exposure that is 1000 times higher than the 6-minute average exposure. Furthermore, Health Canada does not adhere to the Precautionary Principle used by states when serious risks to the public or the environment exist but lack scientific consensus.

### **Declaration**

Many Canadians and people worldwide share a growing perception of risk due to the proliferation of RF sources encountered in daily life and reports of adverse health effects. Since the start of the Wireless Age in the 1990s, health studies show more people reacting adversely to electromagnetic fields and electromagnetic radiation. Epidemiological studies show links between RF exposure and cancers, neurological disorders, hormonal changes, symptoms of electrical hypersensitivity (EHS) and more. Laboratory studies show increased cancers, abnormal sperm, learning and memory deficits, and heart irregularities.

People who suffer from functional impairment due to RF exposure and those who prefer to live, work and raise their children in a low EMF environment are increasingly unable to find such places. Worker productivity, even the capacity to make a living, is diminishing. Some people are being forced into an isolated, nomadic lifestyle, with few resources to sustain them. The medical community in North America is largely unaware of the biological responses to RF exposure and does not know how to treat those who have become ill. The typical methods to alleviate symptoms and promote healing are not working due, in part, to ubiquitous exposure.

### **Our urgent call for public health protection.**

The public's health and the health of the environment are threatened by ever-evolving RF emitting technologies, without due consideration for what the potential cumulative impacts on biological systems are likely to be in the future.

We urgently call upon Health Canada . . .

- i) to intervene in what we view as an emerging public health crisis;
- ii) to establish guidelines based on the best available scientific data including studies on cancer and DNA damage, stress response, cognitive and neurological disorders, impaired reproduction,

- developmental effects, learning and behavioural problems among children and youth, and the broad range of symptoms classified as EHS; and
- iii) To advise Canadians to limit their exposure and especially the exposure of children.

*Signed,*

**Dr. Franz Adlekofer, MD**, Pandora Foundation, Germany  
**Dr. Bahriye Sirav Aral**, Gazi University, Faculty of Medicine, Department of Biophysics, Turkey  
**Dr. Fiorella Belpoggi**, Director, Cesare Maltoni Cancer Research Center, Ramazzini Institute, Italy  
**Prof. Dr. Dominique Belpomme**, MD, MPH, Prof. Med. Oncol. Paris Univ. Hospital; Dir., European Cancer & Environment Research Inst., France  
**Dr. Martin Blank**, PhD, Columbia University, USA  
**Prof. Marie-Claire Cammaerts**, PhD, Faculty of Sciences, Free University of Brussels, Belgium  
**Dr. Ayşe G. Canseven**, Gazi University, Medical Faculty, Biophysics Department, Turkey  
**Dr. David Carpenter**, MD, Institute for Health and the Environment, University at Albany, USA  
**Dr. Simona Carrubba**, PhD, Daemen College, Women & Children's Hospital of Buffalo (Neurology), USA  
**Dr. Devra Davis**, PhD, MPH, President, Environmental Health Trust; Fellow, American College of Epidemiology, USA  
**Dr. Adilza C. Dode**, PhD, MSc, Prof. EMF Pollution Control, Environ. Eng. Dept, Minas Methodist Univ. Ctr. Belo Horizonte, Brazil  
**Dr. Meric Arda Esmekaya**, PhD, Gazi University, Biophysics Department, Turkey  
**Dr. Arzu Firlarer**, MSc, PhD, Senior Researcher & Instructor, Occupational Health and Safety Department, Baskent University, Turkey  
**Dr. Adamantia F. Fragopoulou**, MSc, PhD, Postdoc. Research Assoc., Dept. Cell Biology & Biophysics, Biology Faculty, Univ. of Athens, Greece  
**Dr. Christos Georgiou**, Prof. Biochemistry, Biology Department, University of Patras, Greece  
**Dr. Livio Giuliani**, PhD, Director of Research, Italian Health National Service, Rome-Florenze-Bozen, Italy  
**Prof. Yury Grigoriev**, MD, Chairman, Russian National Committee on Non-Ionizing Radiation Protection, Russia  
**Dr. Settimio Grimaldi**, PhD, Associate Scientist, National Research Council, Italy  
**Dr. Claudio Gómez-Perretta**, MD, PhD, Hospital Universitario la fe Valencia, Spain  
**Dr. Lennart Hardell**, MD, PhD, University Hospital, Orebro, Sweden  
**Dr. Magda Havas**, PhD, Environmental and Resource Studies, Centre for Health Studies, Trent University, Canada  
**Dr. Paul Héroux**, PhD, Director, Occupational Health Program, McGill University Medical; InvitroPlus Labs., Royal Victoria Hospital, Canada  
**Dr. Donald Hillman**, PhD, Professor Emeritus, Department of Animal Science, Michigan State University, USA  
**Dr. Martha R. Herbert**, PhD, MD, Harvard Medical School, Massachusetts General Hospital, USA  
**Dr. Tsuyoshi Hondou**, Tohoku University, Japan  
**Dr. Olle Johansson**, Associate Professor, The Experimental Dermatology Unit, Dept. of Neuroscience, Karolinska Institute, Sweden  
**Dr. Florian M. Koenig**, DrSc, Director of Fl. König Enterprises GmbH, Sferics & Meteorosensitivity Research Inst., Germering, Germany  
**Dr. Kavindra Kumar Kesari**, MBA, PhD; Res. Sci., Dept. Environmental Sciences, Univ. Eastern Finland, Finland: Jaipur Nat. Univ., India  
**Prof. Girish Kumar**, IIT Bombay - microwaves and antennas, India  
**Dr. Henry Lai**, PhD, University of Washington, USA  
**Dr. Dariusz Leszczynski**, PhD, DSc, *Editor-in-Chief*: Frontiers in Radiation and Health, Switzerland; Prof, Univ. of Helsinki, Finland  
**Dr. Ying Li**, PhD, InVitroPlus Laboratory, Department of Surgery, Royal Victoria Hospital McGill University Medicine, Canada  
**Prof. Dr. Wolfgang Löscher**, Head, Dept. Pharmacology & Toxicology, Univ. Veterinary Medicine; Center for Neuroscience, Hannover, Germany  
**Dr. Lukas H. Margaritis**, PhD, Prof. Emeritus, Department of Cell Biology and Biophysics, Biology Faculty, University of Athens, Greece  
**Dr. Marko Markov**, PhD, Research International Buffalo, USA  
**Dr. Samuel Milham**, MD, MPH, USA  
**Dr. Anthony Miller**, MD, University of Toronto, Canada  
**Dr. Hidetake Miyata**, PhD, Associate Professor, Department of Physics, Faculty of Science, Tohoku University, Japan  
**L. Lloyd Morgan**, Senior Research Fellow, Environmental Health Trust, USA  
**Dr. Joel M. Moskowitz**, PhD, School of Public Health, University of California, Berkeley, USA  
**Dr. Raymond Richard Neutra**, MD, PhD, USA  
**Dr. Gerd Oberfeld**, MD, Speaker Environmental Medicine, Austrian Medical Association; Public Health, Salzburg Government, Austria  
**Dr. Klaus-Peter Ossenkopp**, PhD, Department of Psychology (Neuroscience), University of Western Ontario, Canada  
**Dr. Elcin Ozgur**, PhD, Biophysics Department, Gazi University Faculty of Medicine, Turkey  
**Dr. Martin Pall**, PhD, Professor Emeritus, Biochemistry and Basic Medical Sciences, Washington State University, USA  
**Dr. Michael A. Persinger**, Professor, Behavioural Neuroscience, Biomolecular Sciences & Human Studies, Laurentian University, Canada  
**Dr. Jerry L. Phillips**, PhD, Center for Excellence in Science, Prof. Dept. Chem. & Biochem., University of Colorado, Colorado Springs, USA  
**Dr. Timur Saliev**, MD, PhD, Life Sciences, Nazarbayev Univ., Kazakhstan; Institute Medical Science/Technology, University of Dundee, UK  
**Dr. Alvaro Augusto de Salles**, PhD, Professor, Federal University of Rio Grande do Sul, Porto Alegre, Brazil  
**Prof. Dr. Nesrin Seyhan**, Medical Faculty, Gazi University; Founding Chair, Biophysics Dept, WHO EMF Advisory Committee, Turkey  
**Dr. Wenjun Sun**, PhD, Professor, Bioelectromagnetics Key Laboratory, Zhejiang University School of Medicine, Hangzhou, China  
**Dr. Mehmet Z. Tuzuz**, PhD, Gazi University, Biophysics Department, Turkey  
**Dr. Lebrecht von Klitzing**, PhD, Head of Inst., Environ. Physics; Former Head, Clinical Research, Medical Univ. Luebeck, Germany  
**Dr. Stelios A. Zinelis**, MD, Hellenic Cancer Society, Greece

*Date of Issuance: July 9, 2014*