

To: His Excellency Antonio Guterres, Secretary-General of the United Nations;
Honorable Dr. Tedros Adhanom Ghebreyesus, Director-General of the World Health Organization;
Honorable Inger Andersen, Executive Director of the U.N. Environment Programme;
U.N. Member Nations

International Appeal:
Scientists call for Protection from Non-ionizing Electromagnetic Field Exposure

We are scientists engaged in the study of biological and health effects of non-ionizing electromagnetic fields (EMF). Based upon peer-reviewed, published research, we have serious concerns regarding the ubiquitous and increasing exposure to EMF generated by electric and wireless devices. These include–but are not limited to–radiofrequency radiation (RFR) emitting devices, such as cellular and cordless phones and their base stations, Wi-Fi, broadcast antennas, smart meters, and baby monitors as well as electric devices and infra-structures used in the delivery of electricity that generate extremely-low frequency electromagnetic field (ELF EMF).

Scientific basis for our common concerns

Numerous recent scientific publications have shown that EMF affects living organisms at levels well below most international and national guidelines. Effects include increased cancer risk, cellular stress, increase in harmful free radicals, genetic damages, structural and functional changes of the reproductive system, learning and memory deficits, neurological disorders, and negative impacts on general well-being in humans. Damage goes well beyond the human race, as there is growing evidence of harmful effects to both plant and animal life.

These findings justify our appeal to the United Nations (UN) and, all member States in the world, to encourage the World Health Organization (WHO) to exert strong leadership in fostering the development of more protective EMF guidelines, encouraging precautionary measures, and educating the public about health risks, particularly risk to children and fetal development. By not taking action, the WHO is failing to fulfill its role as the preeminent international public health agency.

Inadequate non-ionizing EMF international guidelines

The various agencies setting safety standards have failed to impose sufficient guidelines to protect the general public, particularly children who are more vulnerable to the effects of EMF. The International Commission on Non-Ionizing Radiation Protection (ICNIRP) established in 1998 the "Guidelines For Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz)"[1]. These guidelines are accepted by the WHO and numerous countries around the world. The WHO is calling for all nations to adopt the ICNIRP guidelines to encourage international harmonization of standards. In 2009, the ICNIRP released a statement saying that it was reaffirming its 1998 guidelines, as in their opinion, the scientific literature published since that time "has provided no evidence of any adverse effects below the basic restrictions and does not necessitate an immediate revision of its guidance on limiting exposure to high frequency electromagnetic fields[2]. ICNIRP continues to the present day to make these assertions, in spite of growing scientific evidence to the contrary. It is our opinion that, because the ICNIRP guidelines do not cover long-term exposure and low-intensity effects, they are insufficient to protect public health.

The WHO adopted the International Agency for Research on Cancer (IARC) classification of extremely low frequency magnetic fields (ELF MF) in 2002[3] and radiofrequency radiation (RFR) in 2011[4]. This classification states that EMF is a *possible human carcinogen (Group 2B)*. Despite both IARC findings, the WHO continues to maintain that there is insufficient evidence to justify lowering these quantitative exposure limits.

Since there is controversy about a rationale for setting standards to avoid adverse health effects, we recommend that the United Nations Environmental Programme (UNEP) convene and fund an independent multidisciplinary committee to explore the pros and cons of alternatives to current practices that could substantially lower human exposures to RF and ELF fields. The deliberations of this group should be conducted in a transparent and impartial way. Although it is essential that industry be involved and cooperate in this process, industry should not be allowed to bias its processes or conclusions. This group should provide their analysis to the UN and the WHO to guide precautionary action.

Collectively we also request that:

1. children and pregnant women be protected;
2. guidelines and regulatory standards be strengthened;
3. manufacturers be encouraged to develop safer technology;
4. utilities responsible for the generation, transmission, distribution, and monitoring of electricity maintain adequate power quality and ensure proper electrical wiring to minimize harmful ground current;

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[1] http://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf

[2] http://www.icnirp.org/cms/upload/publications/ICNIRPStatementEMF.pdf

[3] https://monographs.iarc.fr/wp-content/uploads/2018/06/mono80.pdf

[4] https://monographs.iarc.fr/wp-content/uploads/2018/06/mono102.pdf

5. the public be fully informed about the potential health risks from electromagnetic energy and taught harm reduction strategies;
6. medical professionals be educated about the biological effects of electromagnetic energy and be provided training on treatment of patients with electromagnetic sensitivity;
7. governments fund training and research on electromagnetic fields and health that is independent of industry and mandate industry cooperation with researchers;
8. media disclose experts' financial relationships with industry when citing their opinions regarding health and safety aspects of EMF-emitting technologies; and
9. white-zones (radiation-free areas) be established.

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Inquiries, including those from qualified scientists who request that their name be added to the Appeal, may be made by contacting Elizabeth Kelley, M.A., Director, EMFscientist.org, at info@EMFscientist.org.
Note: the signatories to this appeal have signed as individuals, giving their professional affiliations, but this does not necessarily mean that this represents the views of their employers or the professional organizations they are affiliated with.

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Dr. Sandra Cruz-Pol, PhD., Professor Electrical Engineering, on Radio Frequencies, Electromagnetics, University of Puerto Rico at Mayaguez; Member of US National Academies of Sciences Committee for Radio Frequencies; Puerto Rico, USA
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Dr. Devra Davis, Ph.D., MPH, President, Environmental Health Trust; Fellow, American College of Epidemiology, USA
Dr. James DeMeo, PhD, retired in private research, USA
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Prof. Om P. Gandhi, Ph.D., Department of Electrical and Computer Engineering, University of Utah, USA
Prof. Beatrice Golomb, MD, Ph.D., University of California at San Diego School of Medicine, USA
Dr Reba Goodman Ph.D, Columbia University, USA
Dr. Martha R. Herbert, MD, Ph.D., Harvard Medical School, Harvard University, USA
Dr. Gunnar Heuser, M.D., Ph.D., F.A.C.P. Emeritus member, Cedars Sinai Medical Center, Los Angeles, CA; Former Assistant Clinical Professor, UCLA; Former member, Brain Research Institute, UCLA. USA
Dr. Donald Hillman, Ph.D., Professor Emeritus, Michigan State University, USA
Elizabeth Kelley, MA, Former. Managing Secretariat, ICEMS, Italy; Director, EMFscientist.org, USA
Dr. Seungmo Kim, Ph.D., Assistant Professor, Department of Electrical and Computer Engineering, Georgia Southern University, USA
Dr. Ronald N. Kostoff, Ph.D., Gainesville, VA, USA
Neha Kumar, Founder, Nonionizing Electromagnetic Radiation Shielding Alternatives, Pvt. Ltd; B.Tech - Industrial Biotech., USA
Dr. Henry Lai, Ph.D., University of Washington, USA
B. Blake Levitt, medical/science journalist, former New York Times contributor, EMF researcher and author, USA
Prof. Trevor G. Marshall, PhD, Autoimmunity Research Foundation, USA
Dr. Albert M. Manville, II, Ph.D. and C.W.B., Adj. Professor, Johns Hopkins University Krieger Graduate School of Arts & Sciences Migratory Bird Management, U.S. Fish & Wildlife Service, USA
Dr. Andrew Marino, J.D., Ph.D., Retired Professor, LSU Health Sciences Center, USA
Dr. Marko Markov, Ph.D., President, Research International, Buffalo, New York, USA
Dr. Jeffrey L. Marrongelle, DC, CCN, President/Managing Partner of BioEnergiMed LLC, USA
Dr. Ronald Melnick, PhD, Senior Toxicologist, (Retired, leader of the NTP's health effects studies of cell phone radio frequency radiation) US National Toxicology Program, National Institute of Environmental Health Sciences, USA
Dr. **Samuel Milham, MD, MPH,** USA
L. Lloyd Morgan, Environmental Health Trust, USA
Dr. Joel M. Moskowitz, Ph.D., School of Public Health, University of California, Berkeley, USA
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Dr. Martin L. Pall, Ph.D., Professor Emeritus, Biochemistry & Basic Medical Sciences, Washington State University, USA
Dr. Jerry L. Phillips, Ph.D. University of Colorado, USA
Dr. William J. Rea, M.D., Environmental Health Center, Dallas, Texas, USA
Camilla Rees, MBA, Electromagnetichealth.org; CEO, Wide Angle Health, LLC, USA
Dr. Cindy Lee Russell, M.D. Physicians for Safe Technology, USA
Prof. Narenda P. Singh, MD, University of Washington, USA
Prof. Eugene Sobel, Ph.D., Retired, School of Medicine, University of Southern California, USA
David Stetzer, Stetzer Electric, Inc., Blair, Wisconsin, USA
Dr. Lisa Tully, Ph.D., Energy Medicine Research Institute, Boulder, CO, USA

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Supporting Scientists who have published peer reviewed papers in related fields

Olga Ameixa, PhD. Post-Doctoral Researcher, Dept of Biology & CESAM, University of Aveiro Campus, Universitário de Santiago, Portugal
Michelle Casciani, MA, Environmental Science, President/Chief Executive Officer, Salvator Mundi International Hospital, Rome, Italy
Enrico Corsetti, Engineer, Research Director, Salvator Mundi International Hospital, Rome, Italy
Dr. Dietmar Hildebrand, Ph.D, Biophysicist, Coinvestigator Biostack Experiments, Germany
Xin Li, **PhD candidate MSc**, Department of Mechanical Engineering, Stevens Institute of Technology, New Jersey, USA
Dr. Carlos A. Loredo Ritter, MD, Pediatrician, Pediatric Neurologist; President, Restoration Physics, North American Sleep Medicine Society, USA
Dr. Robin Maytum, PhD, Senior Lecturer in Biological Science, University of Bedfordshire, Luton, UK
Prof. Dr. Raúl A. Montenegro, Ph.D, Evolutionary Biology, National University of Cordoba; President, FUNAM; Recognitions: Scientific Investigation Award from University of Buenos Aires, UNEP 'Global 500' Award (Brussels, Belgium), the Nuclear Free Future Award (Salzburg, Austria), and Alternative Nobel Prize (Right Livelihood Award, Sweden), Argentina.
Dr. Hugo Schooneveld, PhD, Biologist, Neuroscientist, Advisor to the Dutch EHS Foundation, Netherlands
Dr. Carmen Adella Sirbu, MD, Neurology, Lecturer, Titu Matorescu University, Romania
Jacques Testart, Biologist**,** Honorary Research Director at I.N.S.E.R.M. (French National Medical Research Institute), France