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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[1]

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 mobile phones, cell towers, power lines, power grids, 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 infrastructure that generate extremely low frequency 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 damage, structural and functional changes of the nervous system, learning difficulties, memory loss, and negative impacts on immune, endocrine, and reproductive systems. There are also documented negative impacts on pets,家禽, and other animals. There are 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 plants and the environment.

This finding justify our appeal to the United Nations 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 the potential risks 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) has issued "Guidelines For Limiting Exposure to Time-Varying Electric, Magnetic, and Electromagnetic Fields (up to 300 GHz)"[2]. These guidelines were updated by ICNIRP in 2018. The ICNIRP guidelines are the basis for most of the guidelines in 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 evidence did not support the need to set limits in the absence 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. The ICNIRP has not provided any rationale for these assertions, in spite of growing scientific evidence to the contrary. In our opinion that, because the ICNIRP guidelines do not cover long-term exposures 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]. The classification states that ELF-MF is possibly carcinogenic to humans (Group 2B). Despite the 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 causal link between industry and avoid adverse health effects, we recommend that the United Nations Environmental Program (UNEP) fund 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 definition of "substantially lower" should be determined in a scientific 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 committee should provide their analysis to the UN and the WHO to guide precautionary action.

1. policies and programs to ensure protection;
2. guidelines and regulatory standards to be strengthened;
3. manufacturers to be encouraged to develop safer technology;
4. utilities responsible for the generation, transmission, distribution, and monitoring of electricity maintain adequate power quality and ensure power lines are shielded to reduce human exposure;
5. the public be fully informed about the potential health risks from electromagnetic energy and taught harm-reduction strategies;
6. individuals exposed to EMF be educated about the health risks of electromagnetic energy and be provided training on treatment of patients with electromagnetic hypersensitivity;
7. governments fund training and research on electromagnetic fields and the public be independent of industry and mandate industry cooperation with researchers;
8. media disclose experts' financial relationships with industry when citing the 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 individual scientists who request that their names be removed from the list, may be made by contacting Elizabeth Kelley, M.A., Director, EMF-scientist.org, at info@EMFscientist.org (mailto:info@EMFscientist.org).

Note: the signatures to this appeal have signed as individuals, giving their professional opinions, but this does not necessarily mean that they represent the views of their employers or the professional organizations they are affiliated with.

- [1] <http://www.iarc.org/cms/upload/publications/CNIRPVermgf.pdf> (<http://www.iarc.org/cms/upload/publications/CNIRPVermgf.pdf>)
- [2] <http://www.iarc.org/cms/upload/publications/CNIRPStatementEMF.pdf> (<http://www.iarc.org/cms/upload/publications/CNIRPStatementEMF.pdf>)
- [3] <https://publications.iarc.fr/126>
- [4] <https://publications.iarc.fr/126>

Translations of the Appeal

- [Arabic](#) (/images/docs/transl/Arabic_EMF_ScientistAppeal_2017.pdf)
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