



**To: His Excellency Ban Ki-moon, Secretary-General of the United Nations  
Honorable Dr. Margaret Chan, Director-General of the World Health Organization  
U.N. Member States**

## **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)<sup>1</sup>. 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<sup>2</sup>. 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 electromagnetic field (ELF EMF) in 2002<sup>3</sup> and radiofrequency radiation (RFR) in 2011<sup>4</sup>. 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;
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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<sup>1</sup> <http://www.icnirp.org/cms/upload/publications/ICNIRPemfgdl.pdf>

<sup>2</sup> <http://www.icnirp.org/cms/upload/publications/ICNIRPStatementEMF.pdf>

<sup>3</sup> <http://monographs.iarc.fr/ENG/Monographs/vol80>

<sup>4</sup> <http://monographs.iarc.fr/ENG/Monographs/vol102/>

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**All 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.*

### Signatories

#### Armenia

**Prof. Sinerik Ayrapetyan, Ph.D.**, Life Sciences International Postgraduate Educational Center, UNESCO Chair, Armenia

#### Australia

**Dr. Priyanka Bandara, Ph.D.**, Independent Environmental Health Educator/Researcher, Australia; Advisor, Environmental Health Trust and Doctors for Safer Schools

**Dr. Bruce Hocking, MD, MBBS, FAFOEM (RACP), FRACGP, FARPS**, specialist in occupational medicine; Victoria, Australia

**Dr. Gautam (Vini) Khurana, Ph.D., F.R.A.C.S.**, Director, C.N.S. Neurosurgery, Australia

**Dr. Don Maisch, Ph.D.**, Australia

**Dr. Elena Pirogova, Ph.D.**, Biomed Eng., B. Eng (Hon) Chem. Eng., Engineering & Health College; RMIT University, Australia

**Dr. Mary Redmayne, Ph.D.**, Department of Epidemiology & Preventive Medicine, Monash University, Australia

**Dr. Charles Teo, BM, BS, MBBS**, Member of the Order of Australia, Director, Centre for Minimally Invasive Neurosurgery at Prince of Wales Hospital, NSW, Australia

#### Austria

**Dr. Michael Kundi, MD**, University of Vienna, Austria

**Dr. Gerd Oberfeld, MD**, Public Health Department, Salzburg Government, Austria

**Dr. Bernhard Pollner, MD**, Pollner Research, Austria

**Prof. Dr. Hugo W. Rüdiger, MD**, Austria

#### Bahrain

**Dr. Amer Kamal, MD**, Physiology Department, College of Medicine, Arabian Gulf University, Bahrain

#### Belgium

**Prof. Marie-Claire Cammaerts, Ph.D.**, Free University of Brussels, Faculty of Science, Brussels, Belgium

#### Brazil

**Vânia Araújo Condessa, MSc.**, Electrical Engineer, Belo Horizonte, Brazil

**Prof. Dr. João Eduardo de Araujo, MD**, University of Sao Paulo, Brazil

**Dr. Francisco de Assis Ferreira Tejo, D. Sc.**, Universidade Federal de Campina Grande, Campina Grande, State of Paraíba, Brazil

**Prof. Alvaro deSalles, Ph.D.**, Federal University of Rio Grande Del Sol, Brazil

**Prof. Adilza Dode, Ph.D., MSc.** Engineering Sciences, Minas Methodist University, Brazil

**Dr. Daiana Condessa Dode, MD**, Federal University of Medicine, Brazil

**Michael Condessa Dode**, Systems Analyst, MRE Engenharia Ltda, Belo Horizonte, Brazil

#### Canada

**Dr. Magda Havas, Ph.D.**, Environmental and Resource Studies, Centre for Health Studies, Trent University, Canada

**Dr. Paul Héroux, Ph.D.**, Director, Occupational Health Program, McGill University; InvitroPlus Labs, Royal Victoria Hospital, McGill University, Canada

**Dr. Tom Hutchinson, Ph.D.**, Professor Emeritus, Environmental and Resource Studies, Trent University, Canada

**Prof. Ying Li, Ph.D.**, InVitroPlus Labs, Dept. of Surgery, Royal Victoria Hospital, McGill University, Canada

**James McKay M.Sc.** Ecologist, City of London; Planning Services, Environmental and Parks Planning, London, Canada

**Prof. Anthony B. Miller, MD, FRCP**, University of Toronto, Canada

**Prof. Klaus-Peter Ossenkopp, Ph.D.**, Department of Psychology (Neuroscience), University of Western Ontario, Canada

**Prof. Michael A. Persinger, Ph.D.**, Behavioural Neuroscience and Biomolecular Sciences, Laurentian University, Canada

## China

**Prof. Huai Chiang**, Bioelectromagnetics Key Laboratory, Zhejiang University School of Medicine, China  
**Prof. Yuqing Duan, Ph.D.**, Food & Bioengineering, Jiangsu University, China  
**Dr. Kaijun Liu, Ph.D.**, Third Military Medical University, Chongqing, China  
**Prof. Xiaodong Liu**, Director, Key Lab of Radiation Biology, Ministry of Health of China; Associate Dean, School of Public Health, Jilin University, China  
**Prof. Wenjun Sun, Ph.D.**, Bioelectromagnetics Key Lab, Zhejiang University School of Medicine, China  
**Prof. Minglian Wang, Ph.D.**, College of Life Science & Bioengineering, Beijing University of Technology, China  
**Prof. Qun Wang, Ph.D.**, College of Materials Science & Engineering, Beijing University of Technology, China  
**Prof. Haihu Zhang, Ph.D.**, School of Food & BioEngineering, Jiangsu University, China  
**Prof. Jianbao Zhang**, Associate Dean, Life Science and Technology School, Xi'an Jiaotong University, China  
**Prof. Hui-yan Zhao**, Director of STSCRW, College of Plant Protection, Northwest A & F University, Yangling Shaanxi, China  
**Prof. J. Zhao**, Department of Chest Surgery, Cancer Center of Guangzhou Medical University, Guangzhou, China

## Croatia

**Ivancica Trosic, Ph.D.**, Institute for Medical Research and Occupational Health, Croatia

## Egypt

**Prof. Dr. Abu Bakr Abdel Fatth El-Bediwi, Ph.D.**, Physics Dept., Faculty of Science, Mansoura University, Egypt  
**Prof. Dr. Emad Fawzy Eskander, Ph.D.**, Medical Division, Hormones Department, National Research Center, Egypt  
**Prof. Dr. Heba Salah El Din Aboul Ezz, Ph.D.**, Physiology, Zoology Department, Faculty of Science, Cairo University, Egypt  
**Prof. Dr. Nasr Radwan, Ph.D.**, Neurophysiology, Faculty of Science, Cairo University, Egypt

## Estonia

**Dr. Hiie Hinrikus, Ph.D., D.Sc.**, Tallinn University of Technology, Estonia

## Finland

**Dr. Mikko Ahonen, Ph.D.**, University of Tampere, Finland  
**Dr. Marjukka Hagström, LL.M., M.Soc.Sc.**, Principal Researcher, Radio and EMC Laboratory, Finland  
**Dr. Dariusz Leszczynski, Ph.D.**, Adjunct Professor of Biochemistry, University of Helsinki, Finland;  
Member of the IARC Working Group that classified cell phone radiation as possible carcinogen.

## France

**Dr. Dominique Belpomme**, Professor in Oncology, Paris V Descartes University, ECERI Executive Director  
**Dr. Pierre Le Ruz, Ph.D.**, Criirem, Le Mans, France

## Georgia

**Prof. Besarion Partsvania, Ph.D.**, Head of Bio-cybernetics Department of Georgian Technical University, Georgia

## Germany

**Prof. Dr. Franz Adlkofer, MD**, Chairman, Pandora Foundation, Germany  
**Prof. Dr. Hynek Burda, Ph.D.**, University of Duisburg-Essen, Germany  
**Dr. Horst Eger, MD**, Electromagnetic Fields in Medicine, Association of Statutory Health Insurance Physicians, Bavaria, Germany  
**Dr. rer. nat. Lebrecht von Klitzing, Ph.D.**, Head, Institute of Environ. Physics; Ex-Head, Clinical Research, Fribourg Medical University, Germany  
**Dr.Sc. Florian M. König, Ph.D.**, Florian König Enterprises (FKE) GmbH, Munich, Germany  
**Dr. Ulrich Warnke, Ph.D.**, Bionik-Institut, University of Saarlandes, Germany

## Greece

**Dr. Adamantia F. Fragopoulou, M.Sc., Ph.D.**, Department of Cell Biology & Biophysics, Biology Faculty, University of Athens, Greece  
**Dr. Christos Georgiou, Ph.D.**, Biology Department, University of Patras, Greece  
**Prof. Emeritus Lukas H. Margaritis, Ph.D.**, Depts. Cell Biology, Radiobiology & Biophysics, Biology Faculty, Univ. of Athens, Greece  
**Dr. Aikaterini Skouroliakou, M.Sc., Ph.D.**, Department of Energy Technology Engineering, Technological Educational Institute of Athens, Greece  
**Dr. Stelios A Zinelis, MD**, Hellenic Cancer Society-Kefalonia, Greece

## Iceland

**Dr. Ceon Ramon, Ph.D., Affiliate Professor**, University of Washington, USA; **Professor**, Reykjavik University, Iceland

### India

- Prof. Dr. B. D. Banerjee, Ph.D.**, Fmr. Head, Environmental Biochemistry & Molecular Biology Laboratory, Department of Biochemistry, University College of Medical Sciences, University of Delhi, India
- Prof. Jitendra Behari, Ph.D.**, Ex-Dean, Jawaharlal Nehru University; presently, Emeritus Professor, Amity University, India
- Prof. Dr. Madhukar Shivajirao Dama**, Institute of Wildlife Veterinary Research, India
- Dr. Kavindra K. Kesari, MBA, Ph.D.**, Resident Environmental Scientist, University of Eastern Finland, Finland; Assistant Professor, Jaipur National University, India
- Prof. Rashmi Mathur, Ph.D.**, Head, Department of Physiology, All India Institute of Medical Sciences, New Delhi, India
- Prof. N.N. Sareesh, Ph.D.**, Melaka Manipal Medical College, Manipal University, India

### Iran

- Prof. Dr. Soheila Abdi, Ph.D.**, Physics, Islamic Azad University of Safadasht, Tehran, Iran
- Prof. G.A. Jelodar, D.V.M., Ph.D.**, Physiology, School of Veterinary Medicine, Shiraz University, Iran
- Prof. Hamid Mobasheri, Ph.D.**, Head, BRC; Head, Membrane Biophysics & Macromolecules Lab; Institute of Biochemistry and Biophysics, University of Tehran, Iran
- Prof. S.M.J. Mortazavi, Ph.D.**, Head, Medical Physics & Engineering; Chair, NIER Protection Research Center, Shiraz University of Medical Sciences, Iran
- Prof. Amirnader Emami Razavi, Ph.D.**, Clinical Biochem., National Tumor Bank, Cancer Institute, Tehran Univ. Medical Sciences, Iran
- Dr. Masood Sepehrimanesh, Ph.D.**, Gastroenterohepatology Research Center, Shiraz University of Medical Sciences, Iran
- Prof. Dr. Mohammad Shabani, Ph.D.**, Neurophysiology, Kerman Neuroscience Research Center, Iran

### Israel

- Dr. Yael Stein, MD**, Hebrew University of Jerusalem, Hadassah Medical Center, Israel
- Dr. Danny Wolf, MD**, Pediatrician and General Practitioner, Sherutey Briut Clalit, Shron Shomron district, Israel
- Dr. Ronni Wolf, MD**, Assoc. Clinical Professor, Head of Dermatology Unit, Kaplan Medical Center, Rehovot, Israel

### Italy

- Prof. Sergio Adamo, Ph.D.**, La Sapienza University, Rome, Italy
- Prof. Fernanda Amicarelli, Ph.D.**, Applied Biology, Dept. of Health, Life and Environmental Sciences, University of L'Aquila, Italy
- Dr. Pasquale Avino, Ph.D.**, INAIL Research Section, Rome, Italy
- Dr. Fiorella Belpoggi, Ph.D., FIATP**, Director, Cesare Maltoni Cancer Research Center, Ramazzini Institute, Italy
- Prof. Emanuele Calabro**, Department of Physics and Earth Sciences, University of Messina, Italy
- Prof. Franco Cervellati, Ph.D.**, Department of Life Science and Biotechnology, Section of General Physiology, University of Ferrara, Italy
- Prof. Stefano Falone, Ph.D.**, Researcher in Applied Biology, Dept. of Health, Life and Environmental Sciences, University of L'Aquila, Italy
- Prof. Dr. Speridione Garbisa**, ret. Senior Scholar, Dept. Biomedical Sciences, University of Padova, Italy
- Dr. Settimio Grimaldi, Ph.D.**, Associate Scientist, National Research Council, Italy
- Prof. Livio Giuliani, Ph.D.**, Director of Research, Italian Health National Service, Rome-Florence-Bozen; Spokesman, ICEMS - International Commission for Electromagnetic Safety, Italy
- Prof. Dr. Angelo Levis, MD**, Dept. Medical Sciences, Padua University, Italy
- Prof. Salvatore Magazù, Ph.D.**, Department of Physics and Science, Messina University, Italy
- Dr. Fiorenzo Marinelli, Ph.D.**, Researcher, Molecular Genetic Institute of the National Research Council, Italy
- Claudio Poggi**, Electronics Engineer, Research Director, Sistemi s.r.l., (TN), Genoa, Italy
- Prof. Raoul Saggini**, University G. D'Annunzio, Chieti, Italy
- Dr. Morando Soffritti, MD**, Honorary President, National Institute for the Study and Control of Cancer and Environmental Diseases B. Ramazzini, Bologna, Italy
- Prof. Massimo Sperini, Ph.D.**, Center for Inter-University Research on Sustainable Development, Rome, Italy

### Japan

- Prof. Tsuyoshi Hondou, Ph.D.**, Graduate School of Science, Tohoku University, Japan
- Prof. Hidetake Miyata, Ph.D.**, Department of Physics, Tohoku University, Japan

### Kazakhstan

- Dr. Timur Saliev, MD, Ph.D.**, Life Sciences, Nazarbayev University, Kazakhstan; Institute Medical Science/Technology, University of Dundee, UK

### New Zealand

- Dr. Bruce Rapley, BSc, MPhil, Ph.D.**, Principal Consulting Scientist, Atkinson & Rapley Consulting Ltd., New Zealand

### Nigeria

- Dr. Idowu Ayisat Obe**, Department of Zoology, Faculty of Science, University of Lagos, Akoka, Lagos, Nigeria

### Oman

**Prof. Najam Siddiqi, MBBS, Ph.D.**, Human Structure, Oman Medical College, Oman

### Poland

**Dr. Pawel Bodera, Pharm. D.**, Department of Microwave Safety, Military Institute of Hygiene and Epidemiology, Poland

**Prof. Dr. Stanislaw Szmigielski, MD, Ph.D.**, Military Institute of Hygiene and Epidemiology, Poland

### Republic of China

**Prof. Dr. Tsun-Jen Cheng, MD, Sc.D.**, National Taiwan University, Republic of China

### Russian Federation

**Dr. Oleg Grigoyev, DSc., Ph.D.**, Deputy Chairman, The Russian National Committee on Non-Ionizing Radiation Protection, Russian Federation

**Prof. Yury Grigoryev, MD**, Chairman, Russian National Committee on Non-Ionizing Radiation Protection, Russian Federation

**Dr. Anton Merkulov, Ph.D.**, Russian National Committee on Non-Ionizing Radiation Protection, Moscow, Russian Federation

### Serbia

**Dr. Snezana Raus Balind, Ph.D.**, Research Associate, Institute for Biological Research "Sinisa Stankovic", Belgrade, Serbia

**Prof. Danica Dimitrijevic, Ph.D.**, Vinca Institute of Nuclear Sciences, University of Belgrade, Serbia

**Dr. Sladjana Spasic, Ph.D.**, Institute for Multidisciplinary Research, University of Belgrade, Serbia

### Slovak Republic

**Dr. Igor Belyaev, Ph.D., Dr.Sc.**, Cancer Research Institute, Slovak Academy of Science, Bratislava, Slovak Republic

### South Korea (Republic of Korea)

**Prof. Young Hwan Ahn, MD, Ph.D.**, Ajou University Medical School, South Korea (Republic of Korea)

**Prof. Kwon-Seok Chae, Ph.D.**, Molecular-ElectroMagnetic Biology Lab, Kyungpook National University, South Korea (Republic of Korea)

**Dr. Myung Chan Gye, Ph.D.**, Hanyang University, South Korea (Republic of Korea)

**Prof. Dr. Yoon-Myoung Gimm, Ph.D.**, School of Electronics and Electrical Engineering, Dankook University, South Korea (Republic of Korea)

**Dr. Mina Ha, MD**, Dankook University, South Korea (Republic of Korea)

**Prof. Seung-Cheol Hong, MD**, Inje University, South Korea (Republic of Korea)

**Prof. Dong Hyun Kim, Ph.D.**, Dept. of Otorhinolaryngology-Head and Neck Surgery, Incheon St. Mary's Hospital, Catholic University of Korea, South Korea (Republic of Korea)

**Prof. Ha-Rim Kim**, Dept. of Pharmacology, College of Medicine, Dankook University, South Korea (Republic of Korea)

**Prof. Myeung Ju Kim, MD, Ph.D.**, Department of Anatomy, Dankook University College of Medicine, South Korea (Republic of Korea)

**Prof. Nam Kim, Ph.D.**, School of Information and Communications Engineering, Chungbuk National University, South Korea (Republic of Korea)

**Prof. Yun-Sil Lee, Ph.D.**, Ewha Womans University, **South Korea** (Republic of Korea)

**Prof. Dr. Yoon-Wong Kim, MD, Ph.D.**, Hallym University School of Medicine, South Korea (Republic of Korea)

**Prof. Jung Keog Park, Ph.D.**, Life Science & Biotech; Dir., Research Instit. of Biotechnology, Dongguk University, South Korea (Republic of Korea)

**Prof. Sungman Park, Ph.D.**, Institute of Medical Sciences, School of Medicine, Hallym University, South Korea (Republic of Korea)

**Prof. Kiwon Song, Ph.D.**, Dept. of Chemistry, Yonsei University, South Korea (Republic of Korea)

### Spain

**Prof. Dr. Miguel Alcaraz, MD, Ph.D.**, Radiology and Physical Medicine, Faculty of Medicine, University of Murcia, Spain

**Dr. Alfonso Balmori, Ph.D.**, Biologist, Consejería de Medio Ambiente, Junta de Castilla y León, Spain

**Prof. J.L. Bardasano, D.Sc.**, University of Alcalá, Department of Medical Specialties, Madrid, Spain

**Dr. Claudio Gómez-Perretta, MD, Ph.D.**, La Fe University Hospital, Valencia, Spain

**Prof. Dr. Elena Lopez Martin, Ph.D.**, Human Anatomy, Facultad de Medicina, Universidad de Santiago de Compostela, Spain

**Prof. Enrique A. Navarro, Ph.D.**, Department of Applied Physics and Electromagnetics, University of Valencia, Spain

### Sweden

**Dr. Michael Carlberg, MSc**, Örebro University Hospital, Sweden

**Dr. Lennart Hardell, MD, Ph.D.**, University Hospital, Örebro, Sweden

**Prof. Olle Johansson, Ph.D.**, Experimental Dermatology Unit, Dept. of Neuroscience, Karolinska Institute, Sweden

**Dr. Bertil R. Persson, Ph.D., MD**, Lund University, Sweden

**Senior Prof. Dr. Leif Salford, MD**, Department of Neurosurgery, Director, Rausing Laboratory, Lund University, Sweden

**Dr. Fredrik Söderqvist, Ph.D.**, Ctr. for Clinical Research, Uppsala University, Västerås, Sweden

### Switzerland

**Dr. nat. phil. Daniel Favre**, Association Romande Alert, Switzerland

## Turkey

**Prof. Dr. Mehmet Zülküf Akdağ, Ph.D.**, Department of Biophysics, Medical School of Dicle University, Diyarbakir, Turkey  
**Prof. Dr. Halil Ibrahim Atasoy MD**, Faculty of Medicine, Abant Izzet Baysal University, Turkey  
**Prof. Ayse G. Canseven (Kursun), Ph.D.**, Gazi University, Faculty of Medicine, Dept. of Biophysics, Turkey  
**Prof. Dr. Mustafa Salih Celik, Ph.D.**, Fmr. Head, Turkish Biophysical Society; Head, Biophysics Dept; Medical Faculty, Dicle Univ., Turkey  
**Prof. Dr. Suleyman Dasdag, Ph.D.**, Dept. of Biophysics, Medical School of Dicle University, Turkey  
**Prof. Omar Elmas, MD, Ph.D.**, Mugla Sitki Kocman University, Faculty of Medicine, Department of Physiology, Turkey  
**Dr. Arzu Firlarer, M.Sc. Ph.D.**, Occupational Health & Safety Department, Baskent University, Turkey  
**Prof. Suleyman Kaplan, Ph.D.**, Deputy Chancellor; Dir. Health Services; Head, Dept. Histology & Embryology, Turkey  
**Dr. Mustafa Nazıroğlu, Ph.D.**, Biophysics Dept, Medical Faculty, Süleyman Demirel University, Isparta, Turkey  
**Prof. Dr. Ersan Odacı, MD, Ph.D.**, Karadeniz Technical University, Medical Faculty, Trabzon, Turkey  
**Dr. Elcin Ozgur, Ph.D.**, Biophysics Department, Faculty of Medicine, Gazi University, Turkey  
**Dr. Cemil Sert, Ph.D.**, Department of Biophysics of Medicine Faculty, Harran University, Turkey  
**Prof. Dr. Nesrin Seyhan, B.Sc., Ph.D.**, Medical Faculty of Gazi University; Chair, Biophysics Dept; Director GNRK Ctr.; Panel Mbr, NATO STO HFM; Scientific Secretariat Member, ICEMS; Advisory Committee Member, WHO EMF, Turkey  
**Dr. Bahriye Sirav (Aral), ABD**, Gazi University Faculty of Medicine, Dept of Biophysics, Turkey

## United Kingdom

**David Gee**, Associate Fellow, Institute of Environment, Health and Societies, Brunel University, UK  
**Dr. Mae-Wan Ho, Ph.D.**, Institute of Science in Society, UK  
**Dr. Isaac Jamieson, Ph.D.**, Biosustainable Design, UK  
**Prof. Michael J. O'Carroll**, Emeritus Professor, former Pro Vice-Chancellor, Sunderland University, UK.  
**Alasdair Phillips**, Electrical Engineer, UK  
**Dr. Syed Ghulam Sarwar Shah, M.Sc., Ph.D.**, Public Health Consultant, Honorary Research Fellow, Brunel University London, UK  
**Dr. Sarah Starkey, Ph.D.**, UK

## Ukraine

**Dr. Oleg Banyra, MD**, 2nd Municipal Polyclinic, St. Paraskeva Medical Centre, Ukraine  
**Prof. Igor Yakymenko, Ph.D., D.Sc.**, Institute of Experimental Pathology, Oncology & Radiobiology, National Academy of Sciences of Ukraine

## USA

**Dr. Martin Blank, Ph.D.**, Columbia University, USA  
**Prof. Jim Burch, MS, Ph.D.**, Dept. of Epidemiology & Biostatistics, Arnold School of Public Health, University of South Carolina, USA  
**Prof. David O. Carpenter, MD**, Director, Institute for Health and the Environment, University of New York at Albany, USA  
**Prof. Simona Carrubba, Ph.D.**, Biophysics, Daemen College, Women & Children's Hospital of Buffalo Neurology Dept., USA  
**Dr. Zoreh Davanipour, D.V.M., Ph.D.**, Friends Research Institute, USA  
**Dr. Devra Davis, Ph.D., MPH**, President, Environmental Health Trust; Fellow, American College of Epidemiology, USA  
**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. Martha R. Herbert, MD, Ph.D.**, Harvard Medical School, Harvard University, USA  
**Dr. Donald Hillman, Ph.D.**, Professor Emeritus, Michigan State University, USA  
**Elizabeth Kelley, MA**, Fmr. Managing Secretariat, ICEMS, Italy; Director, EMFscientist.org, 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  
**Dr. Albert M. Manville, II, Ph.D. and C.W.B.**, Adj. Professor, Johns Hopkins University's 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  
**Jeffrey L. Marrongelle, DC, CCN**, President/Managing Partner of BioEnergiMed LLC, 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  
**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, CEO**, Electromagnetichealth.org; CEO, Wide Angle Health, LLC, USA  
**Prof. Narendra 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