

### Global Union Against Radiation Deployment from Space

*GUARDS is an international coalition against global WiFi from space, a complex technology of radiation and toxic chemicals endangering all life on Earth* 

Submitted on January 12, 2016<sup>1</sup>; revised February 1, 2016

#### To: European Commission

# From: Citizens of the world opposed to space-based wireless radiation deployments on the basis of hazards posed to <u>human health and the environment</u>

We the undersigned are knowledgeable about the health and safety effects of electromagnetic fields and microwave radiation. We bring to your attention that Google Inc. has applied for an experimental license from the U.S. Federal Communications Commission (FCC) to implement an internet/communication wireless network over the United States beginning on January 1, 2016. Google's Project Loon, using balloons, is already operating on an experimental basis in Sri Lanka, Indonesia, United States, and other locations.

Google states that it plans to deploy a global wireless communications network to both the developed world and the most remote parts of the Earth. Though it has not yet taken action, the FCC and other U.S. Government agencies may grant approval to Google to begin "experimentation" on an expedited basis. Such approval prevents the level of scrutiny, public notice and review that a proposal of this size and scope warrants. Titan Aerospace Holdings, Inc. has already been granted an experimental license on an expedited basis by the FCC on October 20, 2015 to provide internet in the state of New Mexico using drones. An expedited process subverts critical analyses required to ensure that environmental protection and aviation safety standards are met.

We know that millions of people in the developed world have already become functionally disabled, due to the electromagnetically polluted environments produced by terrestrially based wireless communication infrastructures. Many persons have been forced to flee their homes and jobs, experiencing great difficulties finding a safe and sustainable place to live. Some have sought refuge in remote areas where wireless internet is spotty or nonexistent. With the deployment of Project Loon and other space-based wireless communications projects proposed or underway, and Google's widespread deployment of microwave radiation, such persons will have no place to go.

In May 2015, a large group of international scientists, each of whom had published peer-reviewed research on the biological and health effects of electromagnetic fields (EMF) from extremely low frequencies through microwave radiation, appealed to the United Nations, the World Health Organization, and the U.N. Environmental Programme to institute precautionary measures and to revise international EMF exposure guidelines that are obsolete and inadequate. Presently, 218 scientists in 40 nations have signed *The International EMF Scientist Appeal*, which states: "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."

The Brussels International Scientific Declaration on Electromagnetic Hypersensitivity and Multiple Chemical Sensitivity, released in 2015, builds on several prior resolutions calling for greater protection to prevent what may become "a major public health concern in years to come worldwide, i.e. in all the countries implementing unrestricted use of electromagnetic field-based wireless technologies..."

Given the compelling scientific evidence demonstrating harm from the proliferation of terrestrial wireless communication infrastructure and devices; and given the emerging human rights, public health and environmental crises there from, we

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<sup>&</sup>lt;sup>1</sup> Initial submission had 377 signatures; the revised version of February 1, 2016 has 491 signatures

find the deployment of space-based wireless communications hazardous on the largest scale, and hereby call attention to the biological plausibility that such deployments will increase rates of global species decline and extinction.

We therefore urge the European Commission to heed our warning, and, recalling Resolution N°1815 of the Parliamentary Assembly, Council of Europe, adopted May 27, 2011, *The potential dangers of electromagnetic fields and their effect on the environment*, to enact and promote precautionary measures that productively address this urgent matter. We specifically urge the EC to advise EU member states to defer proposed business agreements to participate in space-based wireless communication deployments.

<u>Note</u>: 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.

# For further information, contact GUARDS (Global Union Against Radiation Deployment from Space) www.stopglobalwifi.org, info@stopglobalwifi.org

#### Signed,

Elizabeth Kelley, MA, Electromagnetic Safety Alliance, USA Arthur Firstenberg, President, Cellular Phone Task Force, USA Susan Clarke, ENvironmental Health Advocacy League, Post-grad/10 yrs. RF Bioeffects, Harvard School Public Health, USA Barbara Payne, Women's Initiative to Reduce ElectroSmog (WIRES), Canada Oram Miller, BBEC, EMRS, Create Healthy Homes, USA Nina Beety, Wireless Radiation Alert Network, USA Martin Blank, PhD, Department of Physiology and Cellular Biophysics, Columbia University, USA Marcey Kliparchuk, GUARDS (Global Union Against Radiation Deployment from Space), Canada David Morrison, President, Wireless Education Action 501c3 non-profit, USA Professor Yury Grigoriev, Deputy Chairman of Scientific Council of Radiobiology RAS, President of Russian National Committee on Non-Ionizing Radiation Protection, Member of Int. Advisory Committee of WHO "EMF and Health", Russian Federation Ed Friedman, Chair, Friends of Merrymeeting Bay, USA Per Segerback, FEB, Scientific Advisor and Regional Representative for Greater Stockholm, Sweden Livio Giuliani, Phd., International Commission for Electromagnetic Safety-ICEMS, Spokesman, Italia Lennart Hardell, MD, PhD, Department of Oncology, University Hospital, Orebro, Sweden Theodora Carato LCSW-C, USA Steve Steckler, USA Frank Clegg, CEO, Canadians For Safe Technology, C4ST, Canada Carlos Sosa, M.D., Colombia, S.A. Christopher Ives, MA, VP Technology, RESTCo Inc. Remote Energy Security Technologies Collaborative, Canada Prof. Dr. Raul Montenegro, PhD., Evol. Biology, Nat. University Cordoba; Alternative Nobel Prize 2004 RLA, Sweden/Argentina Janet Newton, President, The EMR Radiation Policy Institute, Vermont, USA Amber Passini, USA Anthony B. Miller, M.D., Professor Emeritus, Dalla Lana School of Public Health, University of Toronto, Canada Zamir P. Shalita, Israel Cyril W. Smith, Co-author, "Electromagnetic Man: Health and Hazard in the Electrical Environment", UK Dr. Federica Lamech, MBBS, Monash, Australia Prakash Munshi, Citizen Groups of Mumbai, India JUHI Chawla Mehta, Citizen Groups of Mumbai, India Sarah Benson. Greece Angela Cinader, BS ChE, UCLA, Parent of Boys ages 7 and 11 (1 with EHS), USA Lily Turner, GUARDS Member. USA Susan Foster, Medical Writer, US Advisor to Radiation Research Trust (UK), USA Richard Ouimet, Canada Michael Schwaebe P.E., BBEC, USA Sissel Halmøy, Folkets Strålevern, Norway Mary Anne Tierney, RN, MPH, USA Hedda L. Haning, M.D., USA Monica Mendiwel So Benkek, Director, School of Self-Inquiry, Colombia, S.A.

Chuck Matzker, USA Mme Marie-Claire Cammaerts, Université Libre de Bruxelles, Faculté des Sciences, Belgique Patricia Burke, HaltMAsmartmeters.org, USA Magda Havas, PhD, Professor, Trent University, Canada Desiree Jaworski, Executive Director, Center for Safer Wireless, USA Andrea Fabry, President, momsAWARE, a non-profit advocacy group, USA Barbara Kollen, Mother of 2 Adult Children and 2 Grandchildren, USA Windee Willoughby, Garden Designer, USA Carol M. West, U.S. National Park Service, retired, USA Anne Mills, EHS victim, USA Eric Mills, Concerned Citizen, USA Susan Molloy, M.A., Rehab Assistance for Environmental Illness/Intolerance, USA Jonathan Mirin, theatre artist and husband of a woman with EHS, USA/Switzerland Godeliève Richard, theatre artist with EHS, USA/Switzerland Thomas Schepens, Concerned Citizen, Canada Françoise LeBlanc, Canada, Judy Watt, Lakeshore Coalition & Wendy Walks for Electrosensitivity, Canada Ron Watt, Lakeshore Coalition & Wendy Walks for Electrosensitivity, Canada Richard H. Conrad, Ph.D., biochemist, USA Pri Bandara, PhD, Australia Warren Woodward, USA Gunnar Heuser MD, Ph.D, USA Marne Glaser, BS, MA, Executive Member of the Managing Secretariat, ICEMS, Italy/USA Sandi Maurer, Director, EMF Safety Network, USA Sandra Ross, PhD., Health & Habitat, USA Malcolm Paterson, PhD, Molecular Oncologist, Manager, Research Initiatives, British Columbia Cancer Agency Sindi Ahluwalia Hawkins Centre for the Southern Interior, USA Lukas H. Margaritis, Professor Emeritus, Cell Biology and Radiobiology, University of Athens, Greece Debby Baskin, D.C., Doctor of Chiropractic & EHS sufferer, USA Steven Magee, Chartered Electrical Engineer; Member, Institution of Engineering and Technology (IET), UK citizen, USA Victoria Sievers, Regional Outreach Coordinator, EMF Safety Network, USA Deborah Carney, JD, VP-EMR Policy Institute; President, Canyon Area Residents for the Environment (CARE), USA Elizabeth Pond Reza, MSPM, BBEC, EMRS, Current Living, LLC, USA Lena Pu, B.S. Landscape Architect, past work: Environmental Restoration Project Management, USA Antoinette "Toni" Stein, PhD, USA Olemara Peters, Safe Utility Meters Alliance NW, USA Ellen Marks, California Brain Tumor Association, USA The Honorable Andrea M. Boland, MBA, Former Maine State legislator, responsible for EMF protection legislation, USA Garril Page, Taxpaver and Voter, USA Francisco de Assis Ferreira Tejo, DSc, Professor (Ret), Electrical Engineering Dept, Univ. Federal de Campina Grande, Brazil Prof. Dr. med Franz Adlkofer, Chairman, Pandora Foundation, Germany Dr. Isaac Jamieson, PhD, Biosustainable Design, UK Alison Main. USA Pauline Housden, Canada Susan Pitcairn, MS, USA Richard Pitcairn, DVM PhD, USA Gillian Goslinga, PhD, USA Alina Cobzaru, Senior Researcher, Engineer, National Institute Research & Development, Construction & Sustainable Development, Romania Tais Howard, LAc., MAOM, USA Deborah Andrew, MA Don Maisch, PhD., Australia David MacCormack, U.S. Postal employee, USA Ms. Meris Michaels, Member, Association Romande Alerte (advocates safer use, wireless technology), Switzerland. Kim Hahn, MA, private tutor, USA Greg Roberson, Arizona Department of Corrections, Student, Retired Army Special Forces, USA Ron McNutt, concerned citizen, Canada James Edward (Ted) Archibald, BSc Hon Physics + Chemistry; Computer consultant; StopSmartMetersBC.com, Canada Sherry Ridout, member Citizens for Safe Technology; member, Canadians for Safe Technology, Canada Norbert Duerichen, Natural Builder, Canada

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Julia Greenlaw, USA David G. Paulin, Canada Christopher Anderson, ElectroSmog Solutions, Professional EMRadiation Consultant, Canada Yves Shpengla, agriculture, Canada Marilyn Garrett, retired teacher, Wireless Radiation Alert Network, USA Ralph Dom, father of 1, grandfather of 3 - Salt Spring Island, Canada Dawn MacDonald, USA Allison Jablonko, PhD., Anthropologist, USA Phoebe Sorgen, Berkeley Fellowship of Universalist Unitarians, Social Justice Committee, USA Tracy Hendershott, Healthcare practitioner (Physical Therapist) and concerned citizen, USA **Ron Bar** Peter Ludwig, Exec.Dir., Competence Initiative for the Protection of Humanity, Environment and Democracy e.V., Germany Lisa Lavine Nagy M. D., Medical Director, Environmental Health Center of Martha's Vineyard; Communications Director, American Academy of Environmental Medicine, USA Katie Keefer, USA **Roslvn Hamilton** Crystal Wolf, concerned citizen, Canada Theodore Tytkanych, concerned citizen, Canada Gloria Frank, USA Daniel Berman, board member, Wireless Education Action 501c3 non-profit, USA Peter Notz, very concerned citizen, Canada Elizabeth Notz, very concerned citizen, Canada Giselle Duval, Artist, concerned citizen suffering with electrical sensitivity. Canada Jennifer Tanner, USA Linda Gerrard, GRNCM, opera singer, member of ISM and AOTOS, UK Avis Seads, Canada Helen Searle, Citizen at Large, USA Yvonne Rousseau. Canada Kelly Green, Founder, Canadian parents' online forum "Parents for Choice in Technology", Canada Bruce Wrigley, concerned parent, Canada Brian Wrigley, concerned citizen, Canada Michael Cepuch, private citizen, USA Sonja Kirsanova, Switzerland **Pilar Revelles** Tracey Wolansky, Canada Linda Becker, EHS person "getting worse every year", USA Cheriel Jensen, USA Laura von Hausen, Canada Pete Creelman, USA Mitchell Cohen, Coord. No Spray Coalition against pesticides; Former Chair, WBAI radio local station board, USA Liz (SE) Walker QJM, Ret. Environmental Specialist, Powertech Labs; Director, Citizens for Safe Technology, Canada Finlay MacPherson, Canada Sarah Simpson, UK Paul Basker, father, grandpa, vegetable gardener, general contractor, USA Phyllis Kirson, mother, grandma, concerned human, USA Dave Ashton, EMF / EHS Advocate, UK Oona McOuat, Music Teacher at the Salt Spring Centre School, Canada Linda Sepp, Canada Manuel Erickson, concerned, retired citizen, Canada Elly Jodari, USA John Frink, Safe Utility Meters Alliance-NW, USA Rebecca Em Campbell, Independent Researcher/Alternative Journalist/Activist-Artist, USA Rick Nelissen, Canada Nan Wishner, Albany Residents for Responsible Oversight of Wireless, USA Girish Kumar, Professor, Electrical Engineering Department, I.I.T., India Nawaz Khan HND, BSc. CompTIA A+, Pully, Switzerland Michael Meek, USA Larry Parrish, USA Jerry K. Johnson, retired, former Ombudsmen for Arizona (AZ) Department of Revenue, USA Karen S. Johnson, retired AZ State Legislator (served in the AZ House for 8 years and AZ Senate for 4 years: 1998-2010), USA

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Stan Kingman, USA Mary Sobolewski, Canada Joan Harrington, Neurology Research/Educator/Learning Specialist, USA Anneliese Emerson, USA Kathy Ging, MA, Families for SAFE Meters, USA Mike Mitcham, Cofounder, Stop Smart Meters! UK Erika Brunson, President of Copps, Owner of Design Associates, USA Margo Jensen, Canada Svlvan Moir, composer J. Menard, Teacher, Canada Melissa Chalmers, Lakeshore Coalition & Wendy Walks for ES, Canada Maggie Kohanek, Director, Bisbee and Cochise County People for Community and Environmental Rights Nation, USA Helene Robertson, USA Michele Hertz, Founder: Stop Smart Meters NY, USA Nancy Morris, Safe Utility Meters Alliance Northwest, USA Norm Ryder, Canada Eric van Dalen, USA Michael Clarage, PhD, Astronomer, Physicist, Structural Biologist, USA Sandra Nixon, USA Dr. Lennart Vriens, StopUMTS, The Netherlands Martin L. Pall, Ph.D, Professor Emeritus of Biochemistry and Basic Medical Sciences, Washington State University, USA Neil Pregozen, Amherst Acupuncture & Chinese Medicine, USA Ramola D, concerned mother of 11-year-old, USA Joan Rabbotini René Janssen, Building Biologist from the Netherlands, currently living in India Sharon Noble, Director, Citizens for Safe Technology; Director, Coalition to Stop Smart Meters, Canada Dennis Noble, PhD, Canada Arthur Saftlas, USA Sheila Lisster, UK **Evelyn Savarin, USA** Maya Cain, USA Dafna Tachover, "EHS Fight Back", Israel Jane A. Ferris, Ph.D., Clinical Psychologist, USA Anna Harpley, Australia Hélène Vadeboncoeur, Ph.D, Association pour la santé environnementale du Québec, Canada Hugo Schooneveld, PhD, Adviser to the Dutch EHS Foundation, The Netherlands Patty Hemingway MA, Dhom (Med), Health Consultant, Electrosensitive and member of SSITA, UK Prof.dr.ing.Giancarlo Spadanuda-Special Consultant for Italian Court of Appeal on Electromagnetism, Italia Janis Hoffmann, Regional Representative Citizens for Safe Technology, Canada Mary Beth Brangan, Co-Director, EON, The Ecological Options Network, USA James Heddle, Co-Director, EON, The Ecological Options Network, USA Camilla Rees, MBA, ElectromagneticHealth.org, Campaign for Radiation Free Schools, USA Dilnar Chichgar, India Ann Rosenqvist, Sweden Torkel Atterbom, Sweden Daniela L. Homberger, Switzerland Agnes Ingvarsdóttirm - Mast Victims, UK and Denmark based Ron Schranz, USA Kate Kheel, Director of Maryland Smart Meter Awareness, USA Frank Egger, former 7-term mayor of Fairfax, CA, USA Brian Bunn, REHSRS, CP-FS, MPH-c, BBEC (it), EMRS (it), USA Alfonso Balmori, Biologist, Research on effects of electromagnetic radiation on animals and plants, Spain Nina Anderson, President: The Scientific Alliance for Education, USA Deborah M. Rubin, People Against Cell Towers at Schools, USA Mona Nilsson, chairman, Swedish Radiation Protection Foundation, Sweden John Lee, USA Lise Archambault, Canada Peter Boulton, Canada Lena Hedendahl, MD, Sweden Johan Wilhelmson, MD, Sweden

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Sorcha Lenagh, UK Rabbi Paul Arberman, Israel Stephanie Austin, Coalition for Health Against Smart Meters (C.H.A.S.M.), American Coalition for Property Rights, USA Michael Bevington, Chair of Trustees, Electrosensitivity UK (ES-UK) André Fauteux, Publisher, La Maison du 21e siècle, Canada Nils Mogenson Andrea Collins, UK Felicity Tanous, UK Roger J. Middleton B.Eng., B.Com., C.F.A., Retired, Canada Rana Haffar, UK Leif Erlingsson, Sweden Donna Hartson, USA Sara Peckham, USA Ade Gray, Trustee, Mast Sanity, UK Carol Stanton, UK Christine Semenick, concerned citizen, Comox, Canada Iona Altman, member, Sedona Smart Meter Awareness, USA George W. Koch, concerned citizen, Canada Darla C. Engelman, Minister, artist, USA Elizabeth Dawson, Canada Valerie Sobel, President, Andre Sobel River of Life foundation, USA Roni Lederman, Israel Antonio Gagliardi, président, Association "Elettrosmog Volturino", Italy Madhavi Mundrathi, USA Rahel Warshaw-Dadon, Israel Kate Darling, USA Angela Page, USA Stephen Dahl, father of two elementary school children, USA Martine Victor, Concerned parent of two children; former leader of Vermont stopsmeters.org, USA Francesca Romana Orlando, Vice President of AMICA, Italia Jim Warren, USA Nancy York, USA Marianna Hartsong, USA Dr. Cindy Russell, MD, Pesticide Alternatives Santa Clara County, USA Harry J. Warner, M.Sc.. Concerned Person, Canada Yannis Fyssas, Concerned Citizen, Canada Walter Patrick McGinn, EMF tester, Canada Java Secaijo, Concerned Citizen, Canada Eileen O'Connor, Director, UK EM Radiation Research Trust, UK Edward Rubin, concerned citizen, BC, Canada Moon Teitel Guilford, USA Jane Whitehead, Concerned Citizen, Canada Linda Berg, EHS Activist, USA John Vanschie, Canada Nhu Ngo, Canada Terrie Burns, natural healthcare practitioner, USA Michael Bohdan, natural healthcare practitioner, USA Elizabeth R. Mears, Consumer Health Advocate, PPSI, Inc., USA Cherry L. Reed. Canada Laureen Maurizio, Canada, Lakeshore Coalition & Wendy Walks for ES Otto Schnirer, Retired, Canada Yael Levin, Israel Andrew Kurowski, farmer, USA Meredith Wecker, farmer, USA (Electro-Hyper Sensitive) Sallie Latch, USA Marc Haberman, Neighbors for Safer Wireless Technology, USA Teresa Hitch, Canada Walter Vohradsky, Canada Di MacDonald, Concerned, retired citizen who values the quality of the life she has left, Canada Forbes MacDonald, Concerned, retired citizen who values the quality of the life he has left, Canada

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Markus Lauener, President of Committee of Dachverband Elektrosmog Schweiz und Liechtenstein, Liechtenstein Megan Durnford, Canada Richard Sacks, Host, Lost Arts Radio, Independent holistic health scientist since 1965, Essene teacher, USA Edna Pettipas, Canada Jon Eakes, Canada Jacques Hébert, acupuncteur, Canada **Beverley Jean Sinclair** Jean-Pierre Boisvert, Canada Irene Zuili, Israel Linnet Kartar, concerned citizen, Canada William McKenzie, PEng, MBA, Canada. Deborah McAulay, Canada Stéphanie St-Amant, Canada Jorn Senstad, Canada Tamara Farmer, USA Shari R. Anker, M.S.W., USA Ilvana Landes, USA Dr. Martha Corlett, Doctor of Dental Medicine, Canada Sandra Chianfoni, Global Radio Frequency Defense Team, USA Susan Read, USA Mr. and Mrs. H.U.P. Edwards, concerned and retired citizens, Canada Dr Elizabeth Evans MA (Cantab), MBBS, DRCOG, UK, Cofounder, Stop Smart Meters (UK); Medical Adviser to SSITA (Safe Schools Information Technology Alliance), UK Frank Garnish, Exec. Director, Comets Sport, Recreation, and Culture Society, Canada Christine Beegan, Canada Arlene Regeling, Canada Brigitte Watson, Canada Diane Hickey, USA Lesley Barnett, Claimants to Pronouncing True Knowing About Technologies and concerned citizen, Canada Liz Menkes, Certified Building Biologist, USA Paul McGavin, USA Clara Marie Fritz, Licensed Massage Therapist, USA Yvonne Bell, retired and concerned citizen, Canada Judith Hammill, concerned citizen, Canada Nancy Lyle Bennett, FengShui/Energy Worker; Pianist, We Three Trio, USA Sylvia Donati, teacher, mother Karen Hamilton-Roth, RN, mother of one, USA Rod Cooper, Canada Sheila J Winter, an individual who suffered with EHS for 7 years, USA France St Louis Brown, electrosensitive, Canada Susan LaFleur, USA Alison Richmond, yoga teacher and concerned citizen, Canada Victor Odlivak, member, Families for Safe Smart Meters, USA Christopher Heppner, Ph.D. and concerned citizen, Canada Dan Mattson, EMF Technician and Consultant, USA Colin Ruffles, retired high school teacher, Canada Sangita Moskow, composer, USA Wendy Hill, Registered Nurse, Canada Judy Kubrak, Canada Pamela Walters, B.A., MCR, Graduate student, Green Mountain College, Vermont, Environmental Studies Masters Program, USA Diehl O. McKay, concerned citizen, Canada Robert Weinhold, USA Lori Pappajohn, Journalist, Winter Harp Director, Canada Neha Kumar, Entrepreneur, NESA & B.Tech Industrial Biotechnology Nation, USA Cindy Winkelman, private citizen, USA Elizabeth Prather, USA Eric Edelmann, Canada Ms. Jean Burdo Alan Jensen EHS concerned citizen, Canada Sandy Fields, OccupyEMFHarm.org, Interoccupy.net, USA

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Anna Saunders, Political Science Student, Canada Andrea Metz, USA Floris Freshman, EHS sufferer, Actress/Artist/Tarot Reader, USA Susan Pistawka, Licensed Acupuncturist (B.Sc. M.Ac.O.M.,L.Ac.), USA Jason Edwards, USA Karen Hennessy, USA Robert J Hennessy, USA Robert W Hennessy, USA Mercè Farré, Spain Sandra Martinez, Speech Therapist, USA Jovce M Eden, RYT, USA Keren Biran, Israel Barbara Musser, teacher, parent, grandparent, USA Jan Lewis Slavid, EMF Safety Network Member, USA S. Thomas, USA Steven Halpern, Ph.D, Grammy nominated recording artist and researcher, Inner Peace Music, USA Yvan Tardif, Canada Guylaine Couture, Canada Joe Brulotte, Canada Arlyn Greig, Canada Liz Barris, http://americanassociationforcellphonesafety.org/; http://citizensforaradiationfreecommunity.org/; http://thepeoplesinitiative.org/; http://stopsmartgrid.org/ Virginia Farver, son died of brain tumor due to exposure to antennas, USA Margaret White, UK Miss Anita Muljibhai Gandhi, India Miss Malti Muljibhai Gandhi, India Anita Gandhi: Low radiation in house but constant so got breast cancer and underwent right breast mastectomy--Tumour between 2nd and 3rd grade. Malti Gandhi: kept getting non-healing mouth ulcers sleep disorders, and short term memory loss frequently. Igor Belyaev, Dr.Sc., Head, Radiobiology Lab, Cancer Research Institute, Slovak Academy of Science, Slovak Republic Chellis Glendinning, Ph.D. in Psychology, Retired LPCC/New Mexico, Bolivia F Sutton. Canada Smadar Suday Rozin, Israel Cindi Peck, USA Kirstin Tuttle. USA Ms. Deborah Cran, EHS/MCS, Spokesperson for Gulf Islanders for Safe Technology, Canada **Elaine Marsh** Kath Hewitt, concerned citizen, Canada Martine Léonard, Canada Lois Albury, concerned citizen, Canada Janice Kyd, USA Gerry Conway, concerned citizen, Canada Kirstin Beatty, Healing Earth Refuge, USA Valerie Stanley-Jones BA, MH, CHT, RRRT, Canada Laurie Sheridan, Green Party, USA L Ramsay, Canada P. Hodge, Canada Maria Acosta porte-parole, Basses-Laurentides Refuse, Canada René Robert Boucherville, Canada Donna Fraser. Canada Paul Dovon, EMF Refugee, Electromagnetic Safe Planet, The Microwave Factor, USA LR Floyd, mother of 1, grandmother of 3 - Salt Spring Island, Canada Diane Ensign, Board member, HEAL, Human Ecology Action League of Southern Arizona, USA Michelle Berriedale-Johnson, Director: FreeFrom Awards; Editor: FreeFrom Matters, UK Alison Heath, Host of EMF Summit (online), Canada Peter Schlegel, Secretary, on behalf of Bürgerwelle e.V. Schutz von Mensch und Umwelt, Germany David Barouh, private citizen, USA Ziv Vaturi **Gil Sutovsky** Pedro Belmonte, Ecologists in Action, electromagnetic pollution area, Spain **Carol Stirling**, UK

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Pamela Verduyn, Canada Llona Endisch, BCompSc, Canada Kathryn Stauffer **Ron Colson, USA** Shannon Shephard, Canada Janus D. Gutteson, Faroe Islands William Collinge, PhD, MPH, Collinge & Associates, Iinc., USA April O'Donoughue, Campaign to Control Proliferation of Cell Towers & Microwaves in Eastern Townships, Canada Rosalind Adams, Canada Louise Bachand, Canada Leslie G. Saffer, USA Una St. Clair, Executive Director, Citizens for Safe Technology; North Okanagan CST, Canada Anna Guthrie, Canada Cheryl Bastedo, Citizen of the World, Canada Irma de la Verde, Canada Sheila A. Pratt, Canada Lvnn Roberts Daisy Cartwright, USA David Smernoff, PhD. Psysiologial Ecologist, USA Walter McGinnis, EMF Tester, Canada Gwen Curry, Canada Kay Sibery, Canada Carol Hargitt, Canada Arlen Churchill, MA, EMF-sensitive person, Canada Pamela D. Steinberg, elder worker and mother of two children Jonathon Harvey, Canada Brad Walters, BS, Chemistry; MBA, Aerospace Process Engineer & Quality Manager, (Ret.) USA Nicola Kingslev. USA Jonathan D. Libber, Counsel to Maryland Smart Meter Awareness, Former Senior Attorney, US EPA, USA Daniela Lareau, Canada Angela Ortega, Issues Magazine, Canada Richard Ortega, Issues Magazine, Canada Winifred Thomas, USA Jim Ervin, author; member of the Coalition to Stop Smartmeters, Canada Sylvia Buttner-Schnirer, concerned parent/citizen; Coalition to Stop Smart Meters BC; Citizens for Safe Technology Livia Redesci, MCS/EHS sufferer, Canada Kevin Koronko, MCS/EHS sufferer, Canada Professor Nabhraj R. Spogliarich, EleCT MBRCP, Associate Professor of General & Inorganic Chemistry (ret.), Canada Vasana Spogliarich, EleCT MBRCP, Canada Cathy Read, Concerned Citizen, Canada Jennifer Warr, Concerned Citizen Lia Fraser, Canada Melissa Verton, yoga teacher and therapist, Canada **P. Shaw**, Canada Sharon Blanchard Deoux, Canada Carolyn S. Lenert, community leader and activist, USA Arlene Goetze, USA Rebecca Mofya, USA Dr Lauraine Vivian, medical anthropologist, Faculty of Health Sciences, University of Cape Town, South Africa Tatiana Styloglou, International Relations, Priartem, France Mary Reynolds, South Africa Ramesh Patil, Founder, CVC (Citizens Vigilance Council), India Evelvne Rouquié, EHS since 2007, France Eric Ferland, Projet ÉCOSPHÈRE, Canada Delphine Bachand-Morin Projet ÉCOSPHÈRE, Canada Constance Robinson, RAC, PMP, EMF / EHS sensitive (diagnosed May 2014), USA Dr. Barbara James, chiropracter, Canada Eric Windheim, BA, EMRS, BBEC, Certified Electromagnetic Radiation Specialist; Cert. Building Biology Enviro. Consl., USA Susan Landes, USA Lesleigh Farr, Canada

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Benita Schluschen, Concerned Citizen, Canada Marcus Schluschen, Concerned Citizen, Canada Deborah Landdowne, CCH, RSHom(NA), Classical Homeopathy and Gemmology, Certified CEASE therapist, USA Joe Cosper, USA Lerena Cosper, USA Katlyn Stranger, MFT, SE; USA Monica Lopez, USA Sue Brinchman, Director, Center for Electrosmog Prevention, USA Cecile Davidson, Canada Heidi Davidson, Canada Robert Davidson, Canada Ian Wallace, Canada Janis R. Thompson, Canada Daniel Forcier, journeyman, electrician, Canada Joanne Giesbrecht, school teacher (ret.), school classroom volunteer, Canada Chacon N. Pagita Navarette Diane Ray, LMFT, USA Adilza Condessa Dode, PhD, MSc. Prof.Electromagnetic Pollution Control, Environmental Engineer, Brazil Rob States, MS, PE; consulting engineer- electronics, aviation, structures, construction, computers, USA Dr. John Kiefer, Chiropracter, USA Mary Redmayne, PhD, Scientific Advisor to Environmental Health Trust (USA), New Zealand Judy A. Staab, USA Douglas E Staab, USA Dominique Belpomme, MD, ECERI, Belgium Phillipe Irigaray, ARTAC, Belgium Christine Campagnac, ECERI, Belgium Lyn McLean, Director, EMR Australia. Australia Yael Stein, MD. Israel Ariel Barfield, PhD, HEAL - Human Ecology Action League of Southern Arizona, USA Virginia Suders-Mason, MT, Retired, USA Maris Sidenstecker, USA Christopher Bell, Environmental Consultant, International Institute for Building Biology & Ecology, USA Geraldine Bell, USA Karen Johnson Leuthner, Canada Michael Pellegatti, President, Conservation Video Production, Wild Visions, Inc., USA John C. Provost, USA Eric Schoenberg, MD, USA Jim Stackow, father of 4, Canada