

The Coming 5G Crisis

Dear Sir/Madam, if you care about your health, the health of those you love, the health of your community, of your pets and environment, then please take a little time to read the following—it will probably be some of the most important time you will ever spend. Peace and best wishes.

Our current levels of exposure to microwave radiation are NOT safe. Our mobile phones and other wireless technology emit *microwave radiation*. Contrary to what we may hear from the government, our regulation agencies the Australian Communications Media Authority (ACMA) and the Australian Radiation Protection and Nuclear Safety Agency (APRANSA), the telecommunications companies, and mainstream media our *current* levels of microwave radiation are definitely *not* safe. The proposed introduction of the *radically different* 5G network—in particular, the placement of ‘mini-mobile phone towers’ or transmission boxes every 100 to 300 meters along *every* street in our neighbourhoods—will massively increase our exposure to microwave radiation. There has been absolutely *no* safety testing done for the 5G network.

There are some 10,000 studies showing that the *current* levels of exposure to microwave radiation from our wireless devices are very harmful to our health. Many of these studies are available from the following organisations run by *independent* scientists, doctors and researchers: Environmental Health Trust (www.ehtrust.org); Physicians for Safe Technology (www.mdsafetech.org); the Cell Phone Task Force (www.cellphonetaskforce.org); the Bioinitiative Report (www.bioinitiative.org); Take Back Your Power (www.takebackyourpower.net); Environment and Communities Safe from Radiation (www.ecsfr.com.au).

The current microwave radiation exposure level set by the ACMA, looking to ARPANSA guidelines, is dangerously inadequate. The standard set for public exposure to microwave radiation, that is, radiation between 300 megahertz (MHz) to 300 gigahertz (GHz), has been set at 450 to 1000 microwatts per square centimetre. (A watt is a measure of power, and one hertz equals one wave of electromagnetic radiation per second). The ARPANSA standard is primarily based on the now *obsolete guidelines* (*not safety standards*) set in 1997/8 by The International Commission on Non-Ionizing Radiation Protection (ICNIRP). Consequently, the ARPANSA safety standard *only* takes into consideration *thermal* or *heat* damage from microwave radiation. However, 1000s of studies have now shown that in addition to heat damage, microwave radiation causes many *other* types of damage to cellular structures and processes, including DNA/genetic damage. Taking this into consideration, many countries around the world including Russia, China, Italy, France, Switzerland, Austria, and Israel have set their exposure limits at just 10 microwatts per square centimetre or lower. Since 2002 there have been no less than the 41 *major* appeals to governing bodies and regulatory agencies by national and international groups of independent scientists and doctors regarding the *inadequacy* of international safety guidelines for microwave (or radiofrequency) radiation.

What is a safe exposure level? In 2007 a team of 29 *independent* and world-leading researchers from ten countries undertook an exhaustive review of some 2,000 peer-reviewed studies on health and electromagnetic radiation. Their conclusion was that to protect the most vulnerable groups in our society—children, pregnant mothers, elderly and the physically unwell—**exposure levels should be at just 0.0003 microwatts per square centimetre.** This research is summarised in the *Bioinitiative Report* (updated 2017).

Studies have *confirmed* that our existing levels of exposure to microwave radiation are causing a wide range of health problems. Particular areas of damage identified in the research on microwave radiation include brain and head cancers, infertility and reproductive problems, damage to sperm and eggs/ova, neurological and hormonal problems, and electrical hypersensitivity syndrome (EHS). Dr Karl Hecht has published a detailed history of EHS: objective and subjective symptoms of EHS include sleep disorders, abnormal blood pressure and heart rate, digestive disorders, hair loss, tinnitus, skin rash, dizziness, nausea, headache, memory loss, inability to concentrate, flu-like symptoms, cardiac pain, anxiety. Here is but one major study. The National Toxicology Program Study in the U.S.—a 16 year, 28 million dollar study—released its findings in 2018. It found that microwave radiation causes brain and heart cancer and DNA damage in rats, and that rates increased with exposure, *even at a level radiation below our current ‘safety’ standard.*

Your mobile phone is NOT safe. Professor Devra Davis, a world-renowned epidemiologist at the forefront of reviewing research into the dangers of electromagnetic radiation states: “With respect to mobile phones and brain cancer the reality is that every single well-designed study ever conducted finds an increase in risk of brain cancer with the heaviest users; and the risk is between 50% to eight-fold—that’s a fact.’ Here is but one major example. In 2017 Hardell and Calberg published a meta-study (or overview of the research) entitled *Use of Wireless Phones and Evidence for Increased Risk of Brain Tumours* which looked at *case-controlled* research concerned with the association between mobile phone use and brain cancers. The researchers concluded: “By now carcinogenicity [i.e. causing cancer capacity] has been shown in human epidemiological studies and replicated in animal studies... RF [radio-frequency/microwave] radiation should be regarded as a human carcinogen Group 1 according to the IARC [International Agency for Cancer Research] definition, based on scientific evidence.” Hardell is probably the world’s leading scientist in the area of mobile phone safety.

Mobile phone towers (MPT) are not safe. At least 15 studies now show that the rates of cancer, neurological disorders and symptoms related to EHS are about three to four times greater than normal for people living within 400-500 metres of a MPT. There have been no studies done in Australia. Taiwan just removed 1,700 MPT because they were causing cancer, neurological problems, suicide and miscarriages. The International Association of Fire-fighters has officially opposed MPTs on their stations since 2004. Fire fighters in California successfully won exemption from MPTs being placed on or near their stations. In 2007 mild-mannered John Patterson, one of Australia’s leading telecommunications engineers, smashed down six mobile phone towers with a tank when his measurements and warnings of their highly dangerous radiation levels were not heeded by authorities. There is no *independent* testing of MPT emissions in Australia.

There are no studies showing a safe level of microwave radiation for children. However, unsurprisingly researchers have found that a child’s head absorbs about five times more microwave radiation than does an adult, the bone marrow of a child’s skull absorbs ten times more radiation *vis-à-vis* adults, and that a child’s eyes are much more sensitive to microwave radiation. The American Academy of Paediatrics stated “Children are disproportionately affected by environmental exposures, including cell phone radiation.” The Austrian Medical Association states “Electromagnetic fields and radiation is a matter of dose—and it accumulates over the years as present studies show. Therefore children should categorically not use mobile phones.”

Wifi is not safe. Wifi routers emit 0.1 to 5 microwatts per square centimetre. Studies show that at just 1 to 4 microwatts per square centimetre of exposure to microwave radiation there can be sperm DNA/genetic fragmentation and decreased sperm viability, pathological leakage of the blood-brain barrier (which protects the brain from foreign particles and thus damage), headaches, dizziness, irritability, fatigue, weakness, insomnia, chest pain, difficulty breathing, indigestion, damage to the DNA of brain cells, and changes affecting memory and learning. There are now 26 studies showing that wifi in the school room can cause cancer. In Australia there is *no* testing of microwave radiation levels when wifi is installed in schools, and no testing of long term adverse health effects of wifi on children. A large number of countries, districts and officials around the world have either banned wifi or recommended against its use, especially in schools: France has banned wifi in schools for children below 15 years; the German government, the Cyprian government, the Austrian Medical Association, the Israeli Health Minister, and the Russian National Committee on Non-Ionizing Radiation Protection have all banned, or recommended that wifi not be used, in schools. Please see www.wifi-in-schools-australia.org and www.parentsfor safetechnology.org for more on this crucial area.

Lloyd’s of London, Swiss RE, A.M. Best & other major insurance agencies refuse to insure manufacturers for any adverse health effects from their wireless devices such as mobile phones, wifi, and mobile phone towers. The reason is obvious: in the future there *will be* mass and serious injuries from this technology.

The proposed 5G Network or Smart Grid is a fundamentally different type of network which will massively increase our exposure to microwave radiation and to more damaging forms of microwave radiation.

1) Because 5G does not travel well, in addition to existing mobile phone towers, **there will be countless 1000s of smaller ‘towers’ or transmission boxes located on lamp posts etc. every 100 to 300 meters along every street.** Professor Trevor Marshall, an Australian biomedical scientist specialising in electromagnetic radiation,

estimates that the new 5G network will increase our exposure to radiation from mobile phone towers and transmission boxes by at least 100 times. (The value of any home near a 5G mini-tower will plummet.)

2) **Trees readily absorb 5G radiation and 1000s are being cut down** in areas in which it is being rolled out. The Sydney Council has stated it will oppose the 5G rollout on this and also on aesthetic grounds.

3) At present most of our wireless devices operate from around 900 MHz to 2.45 GHz, but **5G will use much higher (millimetre) microwave frequencies—initially 3.4-7 GHz and 24.5 to 27.5 GHz.** This means your body will be pulsed with electromagnetic waves at the rate of up to 27.5 billion times/hertz per second. (Frequencies may reach 90 GHz in the future.)

4) **5G will use beam-forming technology** where focused beams of microwave radiation are literally fired to and fro between wireless devices and towers or transmission boxes throughout the neighbourhood. (It is in fact a *directed energy system* originally designed by the military.) In the U.S., the Federal Communications Commission has allowed for these beams to be between 20 and 300 *watts*—way above our current 450-1000 *microwatt* ‘safety’ limit. These beams are *part* of the *greatly* increased *pulsed* radiation of 5G. Pulsed radiation is particularly bad for our health. “Pulsed EMFs [electromagnetic frequencies] are, in most cases, much more biologically active [thus damaging] than are non-pulsed (...continuous wave) EMFs.”—Professor Martin Pall.

5) Smart meters are the new electricity meters being placed on homes. **Smart meters are integral to the 5G network** for they will wirelessly connect with all the technology in your home, and many other items, and relay this information to the 5G network. To do this they *constantly* send out pulsed radiation throughout your home at around 900 MHz and 2.4 GHz. In 2015 the Victorian Government commissioned an *independent* study which reviewed three different types of smart meters in 55 properties. It found that smart meters pulsed between 129 to 176,201 times per hour! Dr Daniel Hirsch, a physicist at the University of California, has concluded that at a minimum, a smart meter will expose the occupants of a home to 45 times that of a mobile phone if standing ten feet away, and 450 times if standing three feet away. There has been little to no research done on the health impact of smart meters *per se*, but, not surprisingly, there has been an avalanche of anecdotal reports about health problems caused by them. (See www.stopsmartmeters.com.au for more information.)

6) In time, **the telecos hope to wirelessly connect all of our technology indeed all things/items, to the 5G Network or Internet of Things.** For those interested, this also means *complete* surveillance.

In sum, the 5G network means that you, your family, friends, your pets, all animals and wildlife, all plants, your neighbourhood and your home will be *blanketed* by the high frequency microwave field of the 5G Network—radiating and bouncing between phone towers, transmission boxes (on the street), smart meters, smart phones and other ‘smart’ technology, and any item with a sensor or microprocessor communicating with a smart meter—24 hours a day, 365 days a year. This will include exposure to pulsed, high frequency, focused beams of microwaves hitting your body at rates of around 3.5 to 90 billion waves/hertz a second, where these beams will commonly be between 20 to 300 watts of power (or 2 to 30 times above the current ‘safe’ limit); and all of this will be in *addition* to our existing 3G-4G exposure. (ARPANSA ‘safety’ standards do not consider the effects of pulsed microwave radiation nor cumulative and chronic exposure.)

There has been no *official* safety testing has been done with the 5G Network. This has been explicitly stated by the main regulatory body in the U.S., the FCC, by the U.S. telecommunications industry before the U.S. Senate, and by representatives of the European Union. (See YouTube: *5g FCC Chair Tom Wheeler Presentation with Annotized Concerns*) This is to say that 5G is effectively a gross *experiment* on the population. Dr. Martin Pall, Professor Emeritus of Biochemistry and Basic Medical Sciences at Washington State University, stated: “Putting in tens of millions of 5G antennae *without a single biological test of safety* has to be about the stupidest idea anyone has had in the history of the world.” The wireless industry does not have a single study indicating 5G is safe. Ask yourself ‘Why is it that no safety testing is being done?’ Official and *independent* testing of the safety of the 5G network, where the results were made public would be the *end* of its rollout. Would you like to offer yourself and your children, perhaps your baby, as experimental subjects to ascertain if 5G is safe? No? But this is *exactly* what will be occurring when 5G is rolled out, when it is placed up and down every street in our neighbourhood—*think* about that.

The telecommunications industry has sought to reassure people that most of the 5G radiation will penetrate no further than the skin. Even if this claim were true, it should be of no comfort to anyone, as skin is one of the *major* organs of the body. Further, our exposed and sensitive eyes will *also* be absorbing this radiation. However, nerves,

blood vessels and other electrically *conducting* structures *do* carry electromagnetic radiation *deep* into the body. It must be appreciated that quantum physics has emphatically shown that our bodies are fundamentally composed of charged particles, atoms and molecules which interact and function through electromagnetic interactions, and thus, our bodies are *acutely* sensitive to changes in electromagnetic fields and frequencies.

Not surprisingly cities, states and countries are banning or putting a moratorium on 5G rollout until its health impact can be properly assessed. The Belgian Environment Minister announced that Brussels is halting 5G rollout saying “The people of Brussels are not guinea pigs whose health I can sell at a profit.” Likewise, moratoriums are occurring throughout Switzerland; Florence, Italy; Portland, Oregon, and cities throughout Ohio, Louisiana, and California. In September 2017 over 180 scientists and doctors from 37 countries sent a declaration to officials of the European Commission demanding a moratorium on the roll out of 5G technology. Please see the article by Claire Edwards, *5G Cell Phone Radiation: How the Telecom Companies Are Losing the Battle to Impose 5G Against the Will of the People*, for a full summary of the international opposition to 5G.

Almost unbelievably, the 5G network will include putting 20,000 satellites into low-Earth orbit by 2020 which will ‘blanket’ the Earth in 5G wifi radiation. 4 major companies are involved: Spire Global plans to put up 972 satellites; Boeing 2,956; Space X 12,000; and Oneweb 4,560. The goal is 50,000 satellites. Safety testing?

What to Do?

1. Get informed about the dangers of microwave radiation and 5G and inform others. Informative videos include: *The Truth about Cell Phone and Wireless Radiation*; *Dangers of the 5G Wireless Network*; *5G Action Event Perth—Dr Cooper*; *ABC Catalyst Wi-Fried*; *National Day of Action Against Smart Meters With Jerry Flynn*; *Take Back Your Power*; *Apocalypse—The Extinction Event*.

2. Learn how to protect yourself and those you love from electromagnetic radiation.

3. Support the installation, via the NBN, of fibre optic cables buried in the ground to every business, home, school, and hospital. This is a safe and therefore sane option for people, animals and plants.

4. Lobby your councillors to stop 5G. Find out through freedom of information requests what plans your council has to be involved in the rollout of 5G. Also see www.rfnsa.com.au for mobile phone towers near you.

5. Lobby ARPANSA, the Australian government, etc. to review, revise and *greatly* upgrade the safety standards for microwave radiation. In particular, there must be greater safety standards for children.

6. Legal Action. The Australian barrister Raymond Broomhall has *successfully* stopped the roll out of 5G small cell/mobile transmitters by TPG in Qld, NSW and Victoria. 900 existing transmitters and plans for a further 1,600 have been scrapped, without plans for further development. How this was accomplished is laid out in some detail in the following YouTube videos: a) *Call For Action Against 5G: Max Igan Talks To Barrister Ray Broomhall* b) *5G Action Event Perth 1/2 Raymond Broomhall And George Mellick* c) *Barrister Raymond Broomhall: Presented By Environment and Community Safe From Radiation*. Collectively, these videos constitute an initial resource for anyone or any organisation who/which wants to legally challenge the rollout of the 5G network and, more generally, any electromagnetic infrastructure that is destructive to health. The telecommunications companies have been given the green light by the Federal government but, they and those assisting them, cannot circumvent the *criminal* codes of each state. The fundamentals of Ray’s approach are as follows. A person/party shows that they have a fear, based on reasonable grounds, that electromagnetic radiation from an emitter such as a mobile tower or transmitter is causing, or will cause, the person/party harm (assault). The principle piece of evidence required here and, if needed, which will be regarded by a court as both the substantial and objective basis for a person’s/party’s reasonable grounds of fear of harm, is a written statement by a doctor that the existing or proposed emitter will or may be unsafe for, or cause harm to, the person/party concerned. Second, the organisation who owns or will own the emitter, and those assisting them, are put on legal *notice* of this situation. If the organisation does not cease its action which is causing or will cause harm, then a restraining order—e.g. Protection Order; Apprehended Violence Order; Peace & Good Behaviour Order—can be attained to have the organisation remove, shut down or cease the construction of the emitter. If the order is breached, criminal prosecution and civil liability, including imprisonment, may or will result for company directors, government officials, and other parties involved in perpetrating the assault.

Peace and best wishes to all who read these words.