



# EMR Aware

## Electromagnetic Radiation - Concerns and Informed Choices

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## Newsletter June 2015

This month marks a full year of publishing the EMR Aware Newsletter, culminating with all issues now being available on our website [www.emraware.com](http://www.emraware.com). Having thus provided an overview of electromagnetic radiation (EMR) and the state of play between concerned citizens, industry, and Government regulators, we are now changing to **quarterly** distribution, with our next issue to be released in September. This will allow more time to be devoted to our

own research and specific community projects. All readers are invited to continue sending in items for possible inclusion in forthcoming issues.

Note that our content has also shifted toward scientific evidence and legal perspectives. This is the arena in which will ultimately be achieved the goal of more stringent exposure limits and safer technology. Accordingly, we have adopted standardised headings for each category of EMR-related device. Be sure to also check out our [list of organisations](#) for additional sources of information, many of which offer explanatory text for readers new to the subject.

## **Local News - Northern NSW, SE QLD**

### **Pink Boxes - Open for Business**





Our National carrier has included Bryon Shire in a free trial, until 14 June, of their Wi-Fi enabled public phone boxes. Telstra Offers Free Trial for First 1000 Wi-Fi Hotspots. <http://www.itnews.com.au/News/397988,telstra-offers-free-trial-for-first-1000-wi-fi-hotspots.aspx>

Over recent years, several IT interests in Mullumbimby NSW tried unsuccessfully to set up their own version of free public Wi-Fi in our CBD's. Members of the community, and some Councillors, opposed this, primarily on the basis of health concerns over additional and involuntary microwave exposure. The instigators are now insinuating that, had the scheme succeeded, Telstra would have been forced to abandon its own aspirations. This is highly unlikely since a plan to blanket Australia with hotspots had already been announced. In fact, that was one of the reasons cited for not needing a separate, locally operated network.

The user dynamics of the Telstra service also brings home the point that "free" Wi-Fi, via an enterprise gateway, is not really free. It typically exacts the price of having to wade through logins, ads and surveys to get online. If

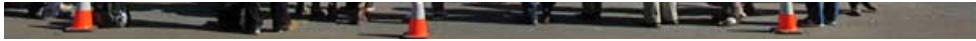
you click the "Rate a Hotspot" button on this page, you can tell them what you think about it.  
<https://www.telstra.com.au/broadband/wifi>

## **Telstra Grooms Brunswick Heads**

As advertsed in our local newspaper, Telstra would "love to meet you" on **Thursday 28 May** from 9am to 3pm at Terrance Reserve in Brunswick Heads. We suspect this event has to do with paving the way for a new phone tower, and countering bad publicity surrounding Byron Shire Council's recent rejection of the one near Ocean Shores Public School. No doubt any shred of positive response extracted from visitors will be used as a form of "community consent" to justify further expansion. Residents concerned about the ever-increasing levels of microwaves in our living environment are urged to attend and make their views known.

## **Towers Around Maleny**





*Protesters at the public works depot in Maleny,  
site of a proposed NBN tower.*

The NBN "community information session" in Maleny QLD on 14 May, attracted 150 concerned residents. While the reps failed to fully address the questions on notice, here are the answers they did provide. [http://www.emraware.com/documents/responses\\_nbn\\_maleny.pdf](http://www.emraware.com/documents/responses_nbn_maleny.pdf)

On the occasion, NBN announced new antennae in Montville, Bald Knob and Witta, maybe hoping to portray themselves as an unstoppable force. These will be located upon existing facilities, thereby rendering them "low impact" and exempt from a Development Application. It appears the Witta tower is receiving this treatment because no landowner there was convinced to sign a Contract. Most had been served Notice by activists that the insurance required of them by NBN may be unobtainable due to policy exclusions on EMR-related injury. In light of this, discussion is being held with Telstra regarding the legal implications of them co-locating the NBN. One local paper conducted an exit poll and could find no one who was in favour of any of NBN's concepts. On the same day, the Towerless NBN for Maleny Hinterlands group provided a real information programme with displays and presentations in the room

under the main hall.

The aforementioned Notice to landowners can be downloaded here, subject to the advice below. <http://www.nbntowers.com/resources.html>

"We would recommend that any community wishing to use these contact Bob first. This is because the Notices have been carefully crafted to conform with all legal requirements, and any changes could render them ineffective. We can report that another community has verified much of what we have discovered. One landowner who signed an NBN Contract had a stand up row with them at a community meeting saying that he understood that it was NBN who insured against risk of harm to the community. NBN confidently informed him that, since signing the Contract, he was now the owner of this risk and public liability (which is uninsurable). They also tried to get a quote for insurance and, like our group, discovered that you cannot".

Yet another 35 metre NBN tower is being proposed within Maleny itself, about 100 metres from a public hospital and a retirement village. This Council-owned property already sports Telstra and other antennae on its 20 metre high

water tank. On 23 May, there was a rally there (see photo above) attended by 50 persons. Opponents contend this siting violates Sunshine Councilâ€™s Telecommunications Facility Code, as well as Scenic Overlays within the 2014 Planning Scheme. At least one Councillor advised she will support objections to this site.

An additional site at Peachester, declared at the 14 May session, is to be within a 224 square metre block of land, for which has been requested a Road Closure to extract it from a large reserve. There are about 40 houses within 400 metres of this site. This also appears not to comply with the aforementioned Council Code.

Council staff had been requested, via the RTI Act, to provide copies of all documents pertaining to its prior dealings with NBN. This cost \$300, but any item judged not to be "in the public interest" was studiously omitted. An appeal has now been lodged. For further information on actions in this area, and to learn from their invaluable experience, email Jim at [zrowaste@sctelco.net.au](mailto:zrowaste@sctelco.net.au)

Biological Effects from Exposure to Electromagnetic Radiation Emitted by Cell Tower Base Stations and Other Antenna Arrays. <http://www.nrcresearchpress.com/doi/pdf/10.1139/A10-018?src=recsys&>

**ARPANSA EMERG Meeting**

These are periodic events run by our National EMR safety regulator wherein "stakeholders" convene to discuss primarily health-related issues. Membership is by invitation and includes industry groups. On 20 May, Steve Weller of Brisbane attended same and presented the following comprehensive slide show on electro hypersensitivity (EHS). Highly recommended viewing. [http://www.emraware.com/documents/ehs\\_presentation\\_emerg.pdf](http://www.emraware.com/documents/ehs_presentation_emerg.pdf)

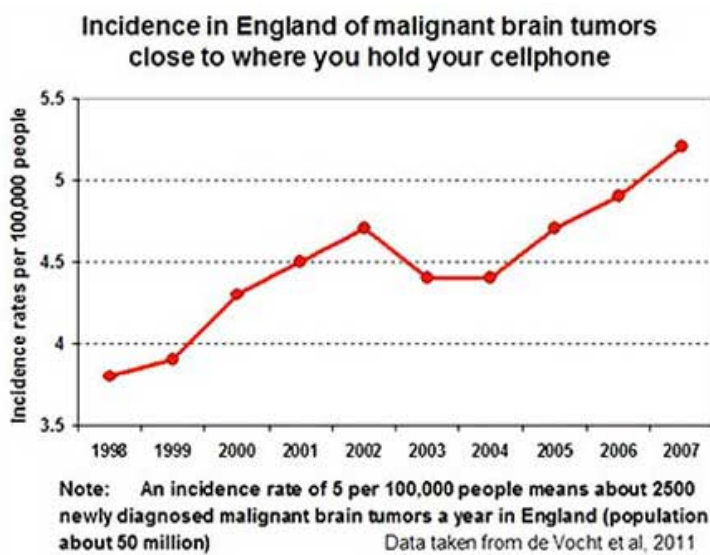
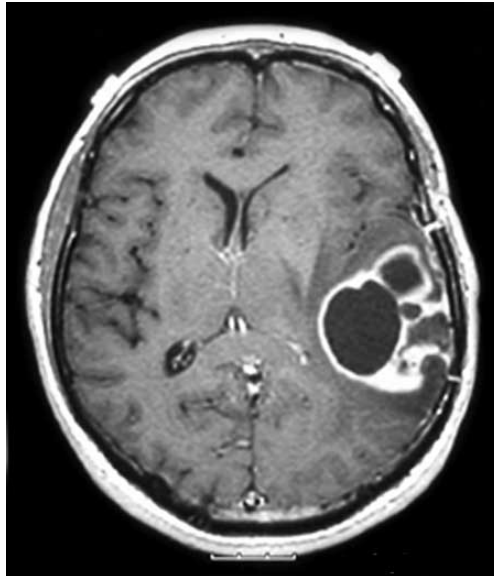
EMERG terms of reference. [http://www.arpana.gov.au/pubs/aboutus/emerg/emerg\\_tor.pdf](http://www.arpana.gov.au/pubs/aboutus/emerg/emerg_tor.pdf)

## **EHS Court Case - Tasmania**

Further to our reportage of Jody Watkin's EHS case involving a tower placed next to her home, it has been advised that negotiations are presently underway with NBN, and no further Court attendances are scheduled at this time. Such processes are necessarily confidential, but we have been told the details of any Settlement will be made known to the fullest extent possible if and when the matter reaches completion. Jody and her legal team would like to thank the hundreds of people who responded to their appeal, and, by doing so, contributed to the matter proceeding toward a fair outcome. Readers may contact Jody at: [giscreek@gmail.com](mailto:giscreek@gmail.com)



# Mobile and Cordless Phones



*Some research indicates Glioma, a brain cancer linked to mobile phone use, is on the rise.*

Doctor Fears Link Between Mobile Phone Use and Brain Cancer. <https://au.news.yahoo.com/vic/a/27814463/melbourne-doctor-fears-link-between-mobile-phone-use-and-brain-cancer/>

Brain Tumor Rates Are Rising in the US: The Role of Cell Phone & Cordless Phone Use. Be sure to checkout the included research links. <http://www.saferemr.com/2015/05/brain-tumor-rates-are-rising-in-us-role.html>

Heavy Use of Cell Phones & Cordless Phones Increases Brain Tumor Risk. <http://www.saferemr.com/2015/05/heavy-use-of-cell-phones-cordless.html>

War-Gaming Cell Phone Science Protects Neither Brains Nor Private Parts. [http://www.huffingtonpost.com/devra-davis-phd/cell-phones-brain-cancer\\_b\\_3232534.html](http://www.huffingtonpost.com/devra-davis-phd/cell-phones-brain-cancer_b_3232534.html)



*How can accessories be leagly sold that contravene manufacturers' own warnings to NOT hold a mobile phone against the head?*

What the Industry is Hiding - Your Cell Phone Is Lethal. [http://](http://www.phonescausebraincancer.com/what-the-industry-is-hiding-your-cellphone-is-lethal/)

[www.phonescausebraincancer.com/what-the-industry-is-hiding-your-cellphone-is-lethal/](http://www.phonescausebraincancer.com/what-the-industry-is-hiding-your-cellphone-is-lethal/)

Cellphone EMF Wi-Fi Health Risks - Scientist's Letter. <http://www.motherjones.com/environment/2015/05/cellphone-emf-wifi-health-risks-scientists-letter>

Cell Phone Exposure - It's Something of Grave Concern. <http://smartgridawareness.org/rf-health-effects/cell-phone-exposure-of-grave-concern/>

An instructive slide show by Andrew Goldsworthy. The Cell Phone and the Cell. <http://www.slideshare.net/Garry54/the-cell-phone-and-the-cell>

Everything You Wanted to Know About Cell Phone Radiation. <http://www.saferemr.com/2013/11/everything-you-wanted-to-know-about.html>

The 700MHz frequency of this new Telstra phone band can result in greater microwave absorption by the body. What Is 4GX? <http://>

[www.gizmodo.com.au/2014/10/what-is-4gx/](http://www.gizmodo.com.au/2014/10/what-is-4gx/)

And in what geographical areas of Australia is 4GX operational now? Conduct a search on this map-based website. [https://](https://www.telstra.com.au/coverage-networks/our-coverage)

[www.telstra.com.au/coverage-networks/our-coverage](https://www.telstra.com.au/coverage-networks/our-coverage)

## **Microwave Towers**

### **Phone, National Broadband, Emergency Networks, Radio and TV**

What to Do If a Cell Tower Is Proposed in Your Neighborhood. [http://](http://www.neighborhoodnotes.com/news/2011/02/what_to_do_if_a_cell_tower_is_proposed_in_your_neighborhood/)

[www.neighborhoodnotes.com/news/2011/02/what\\_to\\_do\\_if\\_a\\_cell\\_tower\\_is\\_proposed\\_in\\_your\\_neighborhood/](http://www.neighborhoodnotes.com/news/2011/02/what_to_do_if_a_cell_tower_is_proposed_in_your_neighborhood/)

"There is a body of research that has over the years pointed to the fact that exposure to mobile radiation can lead to depression."

Suicides Linked to Phone masts. [http://](http://www.express.co.uk/news/uk/49330/Suicides-linked-to-phone-masts)

[www.express.co.uk/news/uk/49330/Suicides-linked-to-phone-masts](http://www.express.co.uk/news/uk/49330/Suicides-linked-to-phone-masts)

Changes of Clinically Important Neurotransmitters under the Influence of Modulated RF Fields. [https://](https://skyvisionsolutions.files.wordpress.com/2014/06/buchner_-_rimbach-study-2011_english.pdf)

[skyvisionsolutions.files.wordpress.com/2014/06/buchner\\_-\\_rimbach-study-2011\\_english.pdf](https://skyvisionsolutions.files.wordpress.com/2014/06/buchner_-_rimbach-study-2011_english.pdf)

Mobile Telephone Base Stations: Effects on Health and Wellbeing. [http://www.wifiinschools.com/uploads/3/0/4/2/3042232/hutter\\_kundi.pdf](http://www.wifiinschools.com/uploads/3/0/4/2/3042232/hutter_kundi.pdf)



*Optical sensor of an HPWREN tower triggered by eagles.*

Emergency communication networks, increasingly deployed by government agencies, are a relatively new focus of opposition to public microwave exposure. The High Performance Wireless Research and Emergency Network (HPWREN) operates in the 2.4-5.8GHz band and incorporates a range of sensors. <https://jenniferlake.wordpress.com/2012/06/21/emf-killing-fields/>

Federal Cell Tower Roll-out. HPWREN, FirstNet, LA-RICS and BAY-RICS towers. <https://www.youtube.com/watch?v=soIvrkfKg-I#t=111>

LA-RICS. LA Police Join Cell Tower Opposition,

Council Votes No! <http://myemail.constantcontact.com/LA-Police-Join-Cell-Tower-Opposition-in-City-of-LA--Council-Votes-No-.html?soid=1112794338317&aid=-0xdkmuVPmU>

US Suspends Funding for Troubled LA County Emergency System. <http://www.latimes.com/local/lanow/la-me-ln-emergency-radios-20150403-story.html>

An analysis of wireless emergency communications and interoperability. Bechtel's NTIA and FirstNet NOI Response. [http://www.ntia.doc.gov/files/ntia/firstnet\\_noi\\_response\\_by\\_bni.pdf](http://www.ntia.doc.gov/files/ntia/firstnet_noi_response_by_bni.pdf)

FirstNet. "Some were worried that the construction of massive cell towers would reduce residents' property values." Los Angeles Officials Halt Public Safety LTE Network. <http://www.fiercewireless.com/tech/story/los-angeles-officials-halt-public-safety-lte-network-clouding-firstnets-pro/2015-04-02>

## Wi-Fi

**Home, Business, Hotspots,  
Transport**





*Industry's preferred interpretation of people "enjoying" themselves.*

This article could explain in part why our Government is so protective of the wireless industry. They claim the technology is their IP and want to extract payment worldwide for its use; preferably without being sued for having "known" beforehand it was unsafe. How the Aussie Government "Invented Wi-Fi" and Sued Its Way to \$430 Million. <http://arstechnica.com/tech-policy/2012/04/how-the-aussie-government-invented-wifi-and-sued-its-way-to-430-million/>

## **Schools and Children**





*The "three R's". Reading, writing and radiation.*

Is Wi-Fi making Your Child Ill? <http://www.telegraph.co.uk/lifestyle/wellbeing/11589857/Is-Wi-Fi-making-your-child-ill.html>

The BabySafe Project, a new public awareness initiative designed to inform women about the links between pregnancy and wireless radiation. <http://www.babysafeproject.org/news-conference/>

5 Facts Every Parent Should Know About EMF's. <http://www.mommypotamus.com/5-facts-every-parent-should-know-about-emfs/>



Belly Armor. <https://www.bellyarmor.com/>

In-depth Investigation Examining Reports of a Cancer Cluster at La Quinta Middle School. <http://www.kesq.com/news/indepth-investigation-examining-reports-of-a-cancer->



[cluster-at-la-quinta-middle-school/31222786](http://cluster-at-la-quinta-middle-school/31222786)

Woman Cuts Family Off From Wi-Fi Over Health Concerns. <http://losangeles.cbslocal.com/2015/05/05/woman-cuts-family-off-from-wifi-over-health-concerns/>

"The process of reading by transmitted light vs. reflective light is processed in different regions of the visual cortex. The regions of the brain devoted to the hand are many and varied. Reading accesses both the visual ability and the kinesthetic/hand abilities/regions of the brain. The pixelated microsecond flashes on a electronic device, or a computer, do not engage the many regions of the brain devoted to hand/speech as does print in a hand-held book." Why You Might Want to Ditch Your eReader and Go Back to Printed Books. <http://www.washingtonpost.com/news/the-intersect/wp/2014/08/21/why-you-might-want-to-ditch-your-e-reader-and-go-back-to-printed-books/>

The Reading Brain in the Digital Age: The Science of Paper versus Screens. <http://www.scientificamerican.com/article/reading-paper-screens/>

On 20 May, we sent an email to every Steiner School in Australia, just over 40, containing the following two quotes (circa 1920's) from their progenitor, Rudolf Steiner. They were also invited to request scientific information on Wi-

Fi, particularly its effects upon children and their developing brains. As of this date, only two have replied, with one detailing methods they have already employed to limit exposure. If any readers would like to follow up, here are the relevant addresses. <http://steinereducation.edu.au/about/member-schools/>

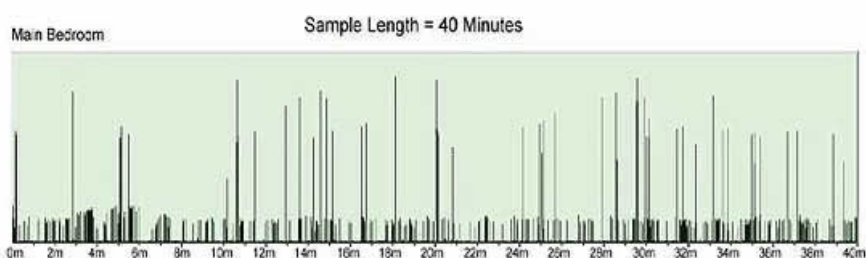
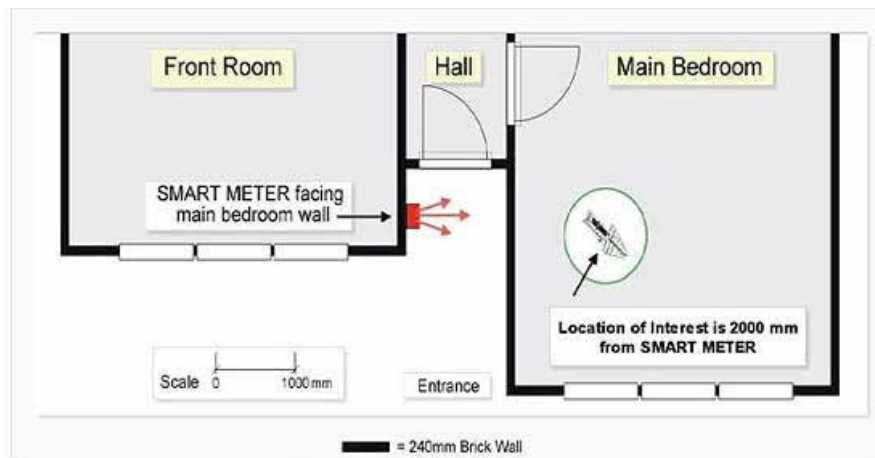
*"Human beings cannot go on developing in the same way in an atmosphere permeated on all sides by electric currents and radiations. It has an influence on the whole development of man. This is quite true: man's inner life will become different if these things are carried as far as is now intended. Steam works more consciously, whereas electricity has an appallingly unconscious influence; people simply do not know where things are coming from. This life of men in the midst of electricity, notably radiant electricity (radio towers were just being installed in 1924) will have the effect that they will no longer be able to understand the news which they receive so rapidly. The effect is to damp down their intelligence."*

*"Electric cables are continuously inducing electric currents in you. All this*

*robs human beings of their physical body; it brings the physical body into a condition in which the soul can simply not enter. We must be quite clear about this: in the days when there were no electric currents, when there were no electric wires buzzing in the air, it was easier to be human. That is why it is necessary today to muster for stronger spiritual forces merely to remain human."*

## Smart Grid

### Electricity, Water and Gas Meters, AMI, HAN



*Microwave transmission intervals measured in*

*bedroom adjacent to a smart meter.*

An excellent primer on smart metering in the form of a slide show. The Advanced Metering Infrastructure or The Smart Electricity Grid.

[http://www.emraware.com/documents/ami\\_smart\\_electrcity\\_grid.pdf](http://www.emraware.com/documents/ami_smart_electrcity_grid.pdf)

About Smart Meters. <http://www.wccatv.com/video/about-smart-meters/ABOUTSMART11>

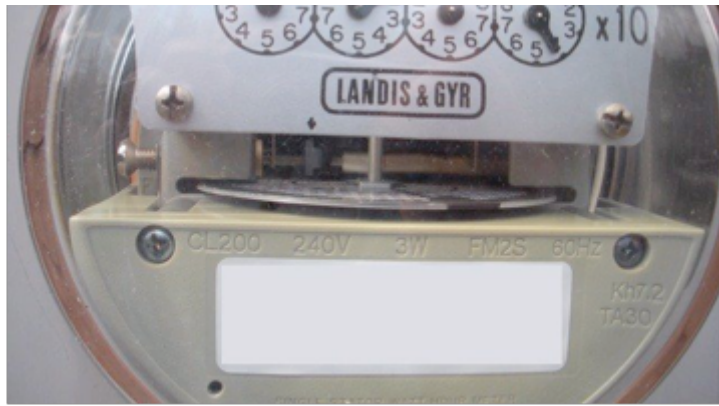
The High Road to a True Smart Grid - Karl Maret, M.D. <https://vimeo.com/87023780>

Smart Meters Are Not the Silver Bullet many Seem to Think. <http://smartgridawareness.org/2015/05/13/smart-meters-are-not-the-silver-bullet-many-seem-to-think/>

Welcome to the "internet of things". Everything, and, by inference, every person who uses a "thing", will be monitored, profiled, and targeted for future purchases. <http://spectrum.ieee.org/tech-talk/telecom/internet/jeremy-rifkin-on-the-internet-of-things-and-the-next-industrial-revolution>

How Smart Meters Invade Individual Privacy. <http://smartgridawareness.org/privacy-and-data-security/how-smart-meters-invade-individual-privacy/>





The following meters are among those that resemble the classic analogue type, but can be quickly retro-fitted, before you can say "no trespassing", with a wireless or PLC module that transmits microwaves.

- ABB: AB1, D5S
- Elster: AB1R
- General Electric: I-70-S
- Landis+Gyr: MS, MX
- Schlumberger: J5S
- Siemens: MS, MX

Indiana Regulators Reject Duke Energy's Plan to Install Smart Meters. <http://takebackyourpower.net/news/2015/05/19/indiana-regulators-reject-duke-energys-plan-to-install-smart-meters/>

Michigan Civil Rights Department Will Hear Smart Meter Complaints. <http://michiganstopsmartmeters.com/type/link/>

Opt-out fees declared illegal. Judge Rules Electric Co-op Violated Discrimination Laws. <http://plumasnews.com/index.php/13744-judge-rules-electric-co-op-violated-discrimination-laws>

“The (Tasmanian) Government will not initiate a mandated roll-out of smart meters, such as occurred in Victoria. The government’s position is that any take up of smart meters must be consumer-led, where consumers may choose to have a smart meter in order to enable their preferred retail product.” Reading between the lines, the "preferred retail product" represents a form of coercion in itself, since the new generation of appliances are designed not to be fully functional without access to a smart meter.

<http://www.emfacts.com/2015/05/in-tasmania-smart-meters-are-optional/>

Explanatory letter opposing smart meters to the City of Kelowna BC from "Thermoguy". [http://www.emraware.com/documents/thermoguy\\_smartmeter\\_letter.pdf](http://www.emraware.com/documents/thermoguy_smartmeter_letter.pdf), and here is his YouTube video on on electrical causation linking RF EMFs to adverse health effects.

<https://www.youtube.com/watch?v=Q9tHOfXMWrA&feature=youtu.be>

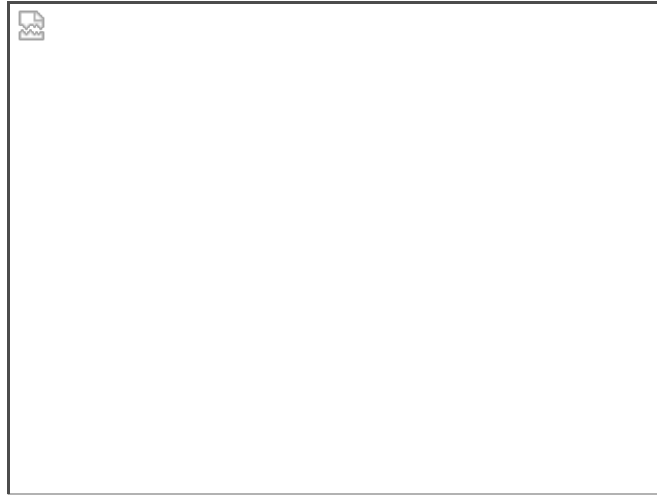


*Thermograph of overheating of connections within a smart meter, a possible cause of fire.*

Certain brands of smart meters have been implicated in house fires. After Tests, PECO to Resume Smart Installation. [http://articles.philly.com/2012-10-10/business/34343946\\_1\\_sensus-meters-sensus-devices-new-generation-meters](http://articles.philly.com/2012-10-10/business/34343946_1_sensus-meters-sensus-devices-new-generation-meters)

Smart Meters Shocking Insurance Development. Podcast. <http://talkdigitalnetwork.com/2015/03/smart-meters-shocking-insurance-development/>

"Silent" installation of smart (AMI capable) water and gas meters is in full swing in Victoria and parts of NSW. Most current models are "pulse ready", meaning that, even if they do not currently transmit data wirelessly, they can be retrofitted with a module to do so at any future time. Some residents are blocking access to their old meter so it cannot be thusly accessed, or otherwise replaced altogether. It is not recommended to do so without first obtaining professional advice. See our [opposition](#) page for further details. [http://www.landisgyr.com/webfoo/wp-content/uploads/product-files/LG\\_APAC\\_Brochure\\_Gas\\_750.pdf](http://www.landisgyr.com/webfoo/wp-content/uploads/product-files/LG_APAC_Brochure_Gas_750.pdf).



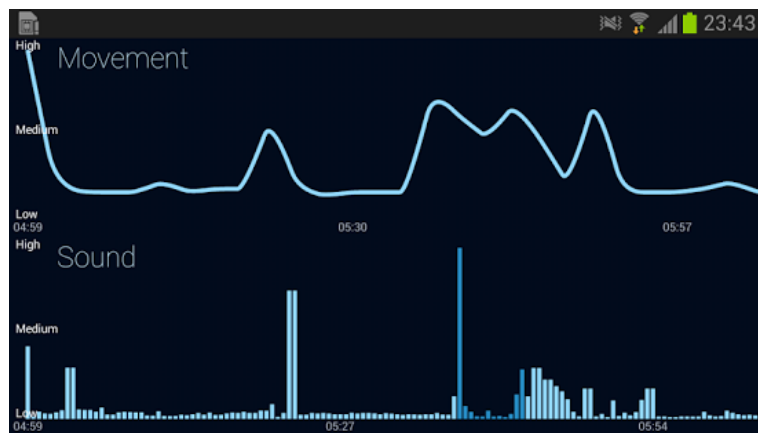
## **Wearable Tech**

### **Fitness Bands, Biometrics, Implants**

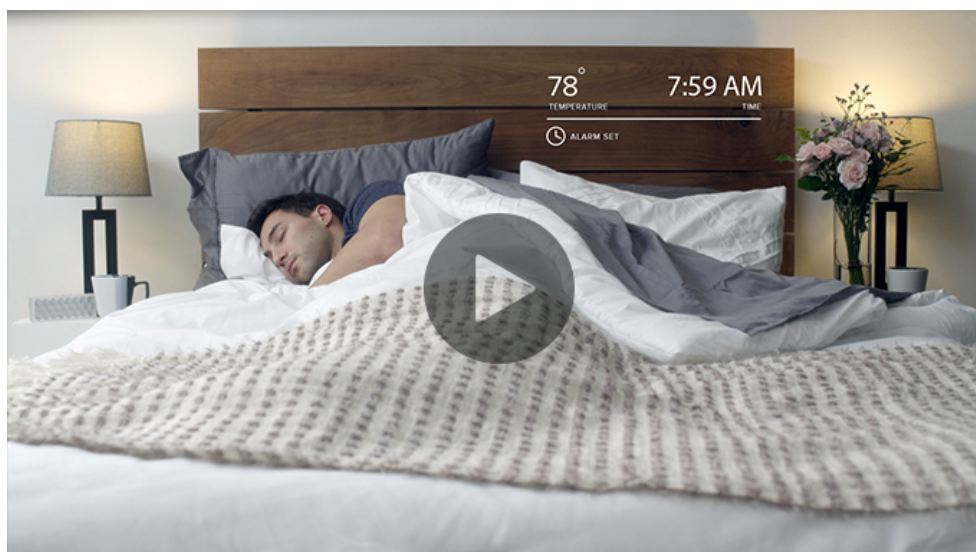
Biometric monitors have their place. But are we to trust that close proximity of sensitive organs to the radio frequencies emitted will contribute positively toward the health and wellbeing they claim to promote? The FCC supports the new trend in "ingestibles," "wearables" and "embeddables". <https://www.fcc.gov/blog/>



new-year-s-resolution-using-broadband-get-healthy-and-stay-well, <https://www.fcc.gov/page/ingestibles-wearables-and-embeddables>



SleepBot Android app works by taking your smart phone to bed, after a few drinks of course. However, this could prove counterproductive since microwaves are reported in a number of scientific studies to disturb brainwave patterns and sleep. <https://play.google.com/store/apps/details?id=com.lslk.sleepbot>



The LunaSleep, smart mattress cover exposes

the user to EMF's from embedded AC heating and RF telemetry signals. Might be more convincing with DC heating, an infrared data link, and a pause button for those intimate moments. <http://lunasleep.com/>

"Misfit Shine" Biometric Pendant. <https://www.indiegogo.com/projects/misfit-shine-an-elegant-wireless-activity-tracker/>

The beastly "Arm Tablet". Like a Tablet But on Your Skin. <https://www.youtube.com/watch?v=9J7GpVQCfms>

## **Mains Radiation, ELF**

### **50/60Hz Powerlines, Wiring, Appliances**

Extremely Low Frequency Electromagnetic Fields as Effectors of Cellular Responses in Vitro: Possible Immune Cell Activation. <http://www.ncbi.nlm.nih.gov/pubmed/15352165>

“Human tumor cells thrive in ELF magnetic fields, and are more immune to attack when exposed to power line fields. (They) are capable of producing significant permanent changes in cellular structure and function, and may be the first step in explaining the abnormally high cancer rates among people exposed to electromagnetic fields.” <http://>

[microwavenews.com/news/backissues/j-a86issue.pdf](http://microwavenews.com/news/backissues/j-a86issue.pdf)



*This all-American hair drier proudly claims to be "low EMF".*

**"When you turn on the body's defence mechanism against disease, which the non-ionising radiation does, and you keep turning it on every day, you down-regulate it and it no longer turns on." - Prof. Ted Litovitz**

## **Aerospace**

### **Satellites, Aircraft and Balloons**

NBN Spends 180M on Satellite Ground Station Construction. <http://>

[www.computerworld.com.au/article/440084/nbn\\_co\\_spends\\_180m\\_satellite\\_ground\\_station\\_construction/](http://www.computerworld.com.au/article/440084/nbn_co_spends_180m_satellite_ground_station_construction/)

Here is a petition to help save our planet from being enveloped by Wi-Fi signals from outer space. Private Satellite Companies: Stop Global Wi-Fi. [https://secure.avaaz.org/en/petition/Private\\_satellite\\_companies\\_Stop\\_Global\\_WiFi/?pv=2](https://secure.avaaz.org/en/petition/Private_satellite_companies_Stop_Global_WiFi/?pv=2)

This is what can happen when supposedly intelligent "scientists" don't know enough not to open a microwave oven while it is operating. <http://www.telegraph.co.uk/news/worldnews/australiaandthepacific/australia/11582733/Strange-outer-space-signal-that-baffled-Australian-scientists-turns-out-to-be-microwave-oven.html>

## **Security**

### **Body Scanners, Surveillance, Non-lethal Weapons**

Cell site simulators collect personal data from tricked smart phones. FBI Says Search Warrants Not Needed to Use "Stingrays" in Public Places. <http://arstechnica.com/tech-policy/2015/01/fbi-says-search-warrants-not-needed-to-use-stringrays-in-public-places/>

Android's Phone's Battery Can Reveal User Location. <http://spectrum.ieee.org/tech-talk/telecom/wireless/android-phones-battery-use-can-reveal-user-location>

CIA Chief: We'll Spy on You Through Your Dishwasher. <http://www.wired.com/2012/03/petraeus-tv-remote/>



Is Your Thermostat Spying on You? <http://www.bloombergview.com/articles/2014-01-15/is-your-thermostat-spying-on-you->



The unpublicised impact of mass surveillance on global energy reserves. Data Centers Waste

Huge Amounts of Energy, Belying Industry image. [http://www.nytimes.com/2012/09/23/technology/data-centers-waste-vast-amounts-of-energy-belying-industry-image.html?pagewanted=all&\\_r=1](http://www.nytimes.com/2012/09/23/technology/data-centers-waste-vast-amounts-of-energy-belying-industry-image.html?pagewanted=all&_r=1)

## General Effects

### Biological Mechanisms, Electro Hypersensitivity



TV segment on "The Feed", SBS Australia. Strangely portrayed as one person's problem when it is endemic. Meanwhile in Zurich Switerland, the city donated land and provided a 6.1 million franc, interest-free loan to establish a housing project for the estimated thousands in that country affected by EHS. Allergic to TV and mobile phones: Is "Electromagnetic Hypersensitivity" Real? <http://www.sbs.com.au/news/thefeed/story/allergic->

## tv-and-mobile-phones-electromagnetic-hypersensitivity-real

This astute commentary was sent in by one of our subscribers. "It is all very well for ARPANSA to claim that 'scientific evidence does not establish that EHS symptoms are caused by exposure to low-level electromagnetic fields'. But where are the studies and reporting measures to track potential health effects from the use of wireless devices in schools, i.e. Sudden Cardiac Events which may be the result of Wi-Fi sensitivities. Why spend money on measuring emissions in schools which we already know will comply with current exposure standards? If the 'official' position is to deny that there is any possible problem, then how can progress be made towards 'establishing' evidence?"

Electromagnetic Hypersensitivity. Public Hearing - European Economic and Social Committee (EESC). Views on the topic: why the EU should deal with electromagnetic hypersensitivity, and what should be the approach. <http://www.eesc.europa.eu/resources/docs/dr-jamieson---revised-presentation.pdf>

The United Nations, most developed Countries, and States within, have enacted human rights laws to protect against torture and cruel, inhuman or degrading treatment. It could be argued that public exposure to electromagnetic

radiations, with no prior certainty of safety, and the objective of monitoring periodically for adverse effects, constitutes an experiment. From Victoria, Charter of Human Rights and Responsibilities Act 2006 - Section 10. [http://www.austlii.edu.au/au/legis/vic/consol\\_act/cohrara2006433/s10.html](http://www.austlii.edu.au/au/legis/vic/consol_act/cohrara2006433/s10.html)

A person must not be:

- a) Subjected to torture; or
- b) Treated or punished in a cruel, inhuman or degrading way; or
- c) Subjected to medical or scientific experimentation or treatment without his or her full, free and informed consent.

**"It is clear from my reading of the scientific literature and experiments which I have conducted that there is the strong possibility that biological effects may be induced by long-term exposure to low levels of microwaves and radiofrequency fields."** - Dr Peter French, St. Vincents Hospital, Sydney

Is the allure of electro-technology making us lose our grip on reality? Would any reasonable person buy a food item at the supermarket that had a "strong possibility" of making them sick?

Dirty Electricity Elevates Blood Sugar Among



Electrically Sensitive Diabetics and May Explain Brittle Diabetes. <http://www.ncbi.nlm.nih.gov/pubmed/18568931>

Electromagnetic Radiation and Epilepsy. [http://www.tetrawatch.net/papers/emr\\_epilepsy.pdf](http://www.tetrawatch.net/papers/emr_epilepsy.pdf)

## **EMR-induced Iron Deficiency**

Pseudo Iron Deficiency in a French Population Living Near High Voltage Power Lines. [http://www.emfacts.com/download/pid\\_france.pdf](http://www.emfacts.com/download/pid_france.pdf)

Disorders attributed to Iron overload include chronic fatigue, Alzheimers, liver disease, diabetes, irregular heart, infertility, and hypothyroidism. Dysmetabolic Iron Overload Syndrome. <http://www.irondisorders.org/iron-overload>



*Rushing to work in a haze of electrosmog.  
Another day in the mine.*

## Calcium Ion Efflux

"Adverse health effects such as brain changes, sleep disruption, impaired immune systems, cancer and neurological diseases, all of which are able to be initiated by altering cellular calcium, can be caused by pulsed and modulated electromagnetic radiation.â€

Cellphones - A Boon to Modern Society or a Threat To Human Health? <http://www.nzine.co.nz/features/cellphones2.html>

RF Induced Calcium Ion Efflux from Neuroblastoma. <http://www.scribd.com/doc/34980786/RF-Induced-Calcium-Ion-Efflux-Enhancement-From-Neuroblastoma>

The stupifying effects of Calcium efflux. The Biochemistry of Neuronal Necrosis. [http://www.tavernarakislab.gr/publications/Biochemistry\\_of\\_Necrosis.pdf](http://www.tavernarakislab.gr/publications/Biochemistry_of_Necrosis.pdf)

How Calcium Could Affect Your Brain. <http://www.doctorshealthpress.com/health-articles/how-calcium-could-affect-your-brain>

Blood Brain Barrier - The Role of Calcium Homeostasis. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2861516/>

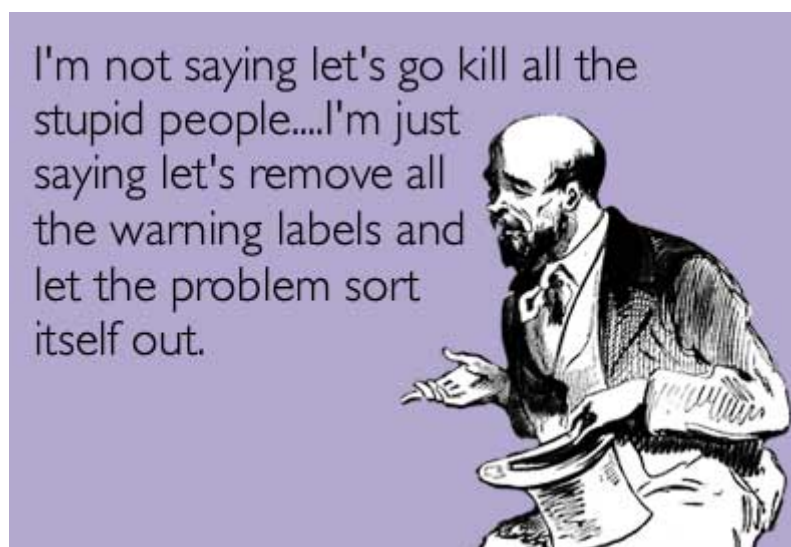
**â€œThe alternating fields generate alternating electric currents that flow through cells and tissues and remove structurally important**

**calcium ions from cell membranes, which then makes them leak. Virtually all of the non-thermal effects of EMR can be accounted for by the leakage of cell membranes."**  
- Andrew Goldsworthy

**“Inward calcium leakage in the neurons of the brain stimulates hyperactivity resulting in attention deficit hyperactivity disorder (ADHD). When this happens in the brains of unborn babies and young children, it can cause autism.”**  
Andrew Goldsworthy

## **Safety Standards**

### **Worldwide Regulations, Bans and Warnings**



Berkeley Votes to Warn Cell Phone Users of

Risks. <http://www.motherjones.com/environment/2015/05/berkeley-cell-phone-law-right-know-ordinance>, [https://www.youtube.com/watch?v=RxWBdUBxJ\\_Y](https://www.youtube.com/watch?v=RxWBdUBxJ_Y).  
Berkeley Cellphone Right-to-know Law. <http://www.saferemr.com/2014/11/berkeley-cell-phone-right-to-know.html>

Cell Phone Safety. Where Do You Keep Your Phone. <http://www.cbsnews.com/news/cellphone-safety-right-to-know/>

California Medical Association Resolution on Wireless. <http://www.parentsfor safetechnology.org/california-medical-association-resolution-on-wireless.html>

"The 195 signatories of the International EMF Scientist Appeal call upon the United Nations, the WHO, and the UN Member States to address the emerging public health crisis related to cell phones, wireless devices, wireless utility meters and wireless infrastructure in neighborhoods; and urge that the United Nations Environmental Programme (UNEP) initiate an assessment of alternatives to current exposure standards and practices that could substantially lower human exposures to non-ionizing radiation." <http://www.emfscientist.org/>, <http://www.ibtimes.com/international-scientists-warn-against-em-radiation-emitted-electronic-gadgets-1920862#.VVaumYPmuRs.facebook>.  
Selected quotations from the scientists. <https://>

[skyvisionsolutions.files.wordpress.com/  
2015/05/  
emf\\_scientist\\_expert\\_quotes\\_alpha.pdf](http://skyvisionsolutions.files.wordpress.com/2015/05/emf_scientist_expert_quotes_alpha.pdf)

Conference: Cell Phones & Wireless Technologies: Should Safety Guidelines Be Strengthened? Monday 22 June. Health & Medicine, Science & Technology, and Environment & Natural Resources, 555 Post St., San Francisco CA. Co-organized by ElectromagneticHealth.org and the Environmental Health Trust, in association with Citizens for Health, the California Brain Tumor Association and the American Academy of Environmental Medicine. [http://  
www.commonwealthclub.org/events/  
2015-06-22/cell-phones-wireless-technologies-  
should-safety-guidelines-be-strengthened](http://www.commonwealthclub.org/events/2015-06-22/cell-phones-wireless-technologies-should-safety-guidelines-be-strengthened)

Statement on Mobile Phones for Conference on Cell Phones and Health. [http://  
www.emrpolicy.org/files/  
15sep09\\_mcglade\\_statement.pdf](http://www.emrpolicy.org/files/15sep09_mcglade_statement.pdf)

"The Federal Office for Radiation Protection did not recommend to use wireless networks when a wired network solution can offer the same performance." Bavarian State Ministry of Education and Cultural Affairs. Letter to Parliament. [http://www.emraware.com/  
documents/bavarian\\_wifi\\_letter.pdf](http://www.emraware.com/documents/bavarian_wifi_letter.pdf)

Frank Clegg, CEO of C4ST, and past President of

Microsoft Canada, talks about the masses of scientific research ignored by Health Canada in their review of Safety Code 6. <https://www.youtube.com/watch?v=3QekBTvH0L4#t=101>

As the following two papers demonstrate, there is more to EMR protection than governments legislating blanket exposure limits within a few preset bandwidths. Power Density: Radio frequency Non-Ionizing Radiation. [http://www.hese-project.org/hese-uk/en/niemr/power\\_density\\_effects.pdf](http://www.hese-project.org/hese-uk/en/niemr/power_density_effects.pdf)

Resonance Properties of the Biological Objects in the RF Field. [http://iopscience.iop.org/1742-6596/329/1/012033/pdf/1742-6596\\_329\\_1\\_012033.pdf](http://iopscience.iop.org/1742-6596/329/1/012033/pdf/1742-6596_329_1_012033.pdf)

## **Industry Watch**

### **Product Defense, Liability and Legal Action**

Legal and Public Health Problems of the Wireless Age. <http://pubcit.typepad.com/clpblog/2014/09/legal-and-public-health-problems-of-the-wireless-age.html>

Here is an example of industry-inspired, EMR damage control by Prof. Simon Chapman at the University of Sydney, the prime advocate of

smart cards for all tobacco users. Scroll down the page to enjoy the comments submitted by his devotees. How many of them will change their mind in the next ten years? <http://theconversation.com/no-were-not-all-being-pickled-in-deadly-radiation-from-smartphones-and-wifi-41980>

## **EMR Countermeasures**

### **Personal Precautions and Monitoring**

How to Reduce Your Family's EMF Exposure. <http://www.mommypotamus.com/emf-protection/>

Effects of Olive Leaf Extract on Metabolic Disorders and Oxidative Stress Induced by 2.45 GHz WIFI Signals. <https://www.ncbi.nlm.nih.gov/pubmed/23994945>

For more possibilities regarding natural EMR remedies, see this referenced list by Chandra Easton. [http://www.emraware.com/documents/natural\\_emr\\_remedies.pdf](http://www.emraware.com/documents/natural_emr_remedies.pdf)

fLux is a computer program that imparts a warmish glow to computer screens after dark for better sleep. Cold blue light inhibits melatonin production. <https://justgetflux.com/>

Blue Light has a Dark Side. <http://>

[www.health.harvard.edu/staying-healthy/blue-light-has-a-dark-side](http://www.health.harvard.edu/staying-healthy/blue-light-has-a-dark-side)

What's in a Color. The Unique Human Health Effects of Blue Light. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2831986/>

Dr. Celia Sanchez-Ramos of Complutense University in Madrid has reported that prolonged, continuous exposure to LED screens could irreversibly damage the retina of your eye, which might lead to macular degeneration and blindness over time. The culprit is intense levels of "blue light." [http://www.naturalnews.com/049489\\_iPhone\\_eye\\_damage\\_blindness.html](http://www.naturalnews.com/049489_iPhone_eye_damage_blindness.html)

An ever-increasing range of questionable products promise "EMR protection", some by emitting supposedly beneficial energy fields based upon natural Earth frequencies. Q-Link Scam Canned On ABC MediaWatch. <https://www.youtube.com/watch?v=BYXwSzlgMak>, <http://skepdic.com/qlink.html>. Here is another one. <http://www.earthcalm.com/>

While the sales pitch and proffered research may look convincing, faith in these unorthodox devices should not eclipse common sense [precautionary measures](#). One thing is for certain. They do not, by any conventional standard, reduce ambient EMR levels. Given the



reputation of regulatory bodies such as the TGA and FDA to vigorously attack uncertified health claims, availability of these items in the open marketplace remains a mystery. We suspect it has to do with keeping alive the myth that the human race can somehow coexist safely with ever-increasing levels of EMR.



*One suggestion for signs to alert members of the public to the presence of Wi-Fi. It's about freedom of choice and informed consent.*

## **Networking**

The information-packed June issue of EMR Australia's newsletter is available for download here. <http://emraustralia.com.au/pdf/15%20Jun.pdf>

Lucinda Curran, a Building Biologist in Melbourne, is sponsoring an initiative to help represent persons with EHS. "I have been working with Dr Sharyn Martin and Dr Ian

Buttfield on creating a National register for those with environmental sensitivities. Our aim is to collect data to enable better decision-making for those with these needs. Politicians need the statistical evidence to create legislation." <https://anres.org/>

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