



EMR Aware

Electromagnetic Radiation - Concerns and Informed Choices

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Newsletter December - January 2015-16

This free bimonthly newsletter is produced by EMR Aware, a group of concerned citizens based in Northern NSW Australia. It is intended to distribute, in the public interest, the latest information on the health, environmental and social impacts of electro-technologies. Since the primary objective is to encourage a fair and balanced discussion, emphasis here is placed upon aspects of the topics at hand that are not

widely acknowledged by industry and their government regulators.

As was the case with tobacco, asbestos and lead, education and consumer sentiment grounded in science is a key to overcoming the intransigence of commercial interests. Readers can assist by forwarding a link to this page to as many interested persons as possible. Be sure to check past editions of this newsletter for further relevant material.

Mobile and Cordless Phones

Mobile Phones ARE Linked to Cancer, Study Claims: Long-term Use "Is Associated with Alzheimer's, Parkinson's, Headaches and Skin Irritation". <http://www.dailymail.co.uk/health/article-3181406/Mobile-phones-linked-cancer-scientist-claims-Long-term-use-causes-disease-headaches-skin-irritation.html>

A Selection of 139 Papers That Indicate Health Effects of Cell Phone Use. <http://www.wirelesswatchblog.org/wp-content/uploads/2011/06/scientific-papers-health-effects-cell-phones1.pdf>





Finished with your mobile phone? Phone throwing is a popular national sport in Finland.

Overproduction of Free Radical Species in Embryonal Cells Exposed to Low Intensity Radiofrequency Radiation. <http://exp-oncology.com.ua/wp/wp-content/uploads/2013/09/2044.pdf?upload=>

Tinnitus and Cell Phones: The Role of Electromagnetic Radiofrequency Radiation. http://ac.els-cdn.com/S1808869415001639/1-s2.0-S1808869415001639-main.pdf?_tid=63a947cc-97ba-11e5-954a-00000aacb35f&acdnat=1448926429_a325b32b2a4e064922098698397bbe5f

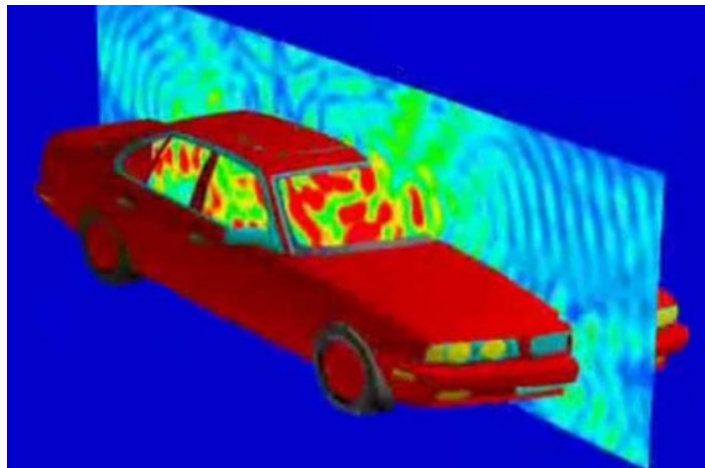
Article in the Good Weekend section of the Sydney Morning Herald. Why Devra Davis Wants the World to Hang Up and Take Notice. <http://www.smh.com.au/good-weekend/why-devra-davis-wants-the-world-to-hang-up-and-take-notice-20151125-gl7ojl.html>

Videos -Dr. Davis' recent visit to Australia.

Interview with Dr. Devra Davis on The Today Show. Smart Phone Radiation Concerns. <http://www.9jumpin.com.au/show/today/today-takeaway/2015/november/mobile-phone-radiation/>

Dr. Devra Davis, Dean's lecture at University of Melbourne. The Truth About Mobile Phone and Wireless Radiation. <http://www.eng.unimelb.edu.au/engage/events/lectures/davis-2015>

Driving Like Crazy



Metal body of car concentrates mobile phone radiation.

Nation Safety Council (US) Study: An Estimate of Cell Phone Crashes 2013. <http://www.nsc.org/DistractedDrivingDocuments/Cell-Phone-Estimate-Summary-2013.pdf>

- Cell phone use while driving leads to 1.6 million crashes each year.
- Nearly 330,000 injuries occur each year from accidents caused by texting while driving.
- 1 out of every 4 car accidents in the United States is caused by texting and driving.
- Texting while driving is 6x more likely to cause an accident than driving drunk.
- Texting while driving causes a 400% increase in time spent with eyes off the road.
- 11 teens die every day as a result of texting while driving.
- 21% of teen drivers involved in fatal accidents were distracted by their cell phones.

Simple distraction or the documented effects of microwaves on the brain? When are insurance companies going to start denying compensation for phone-caused accidents?

Meanwhile in Australia, this pro-industry webpage surprisingly states, "real life accident data indicates that mobile phone use does not contribute significantly to crashes or fatalities". So why then did our government recently raise the applicable fines and penalties? Is someone not telling the truth? <http://www.keepyoureyesontheroad.org.au/pages/Accident-statistics-Cont>

The Health Effects of Cordless (DECT) Phones. <http://it-takes-time.com/2015/06/health-effects-of-cordless-phones.html>

Children and Phones

Pediatricians Warn: Limit Children's Exposure to Cellphones. <http://www.today.com/video/pediatricians-warn-limit-childrens-exposure-to->

[cellphones-559871555807](#)

Mobile Phone Use, Blood Lead Levels, and Attention Deficit Hyperactivity Symptoms in Children: A Longitudinal Study. <http://www.plosone.org/article/fetchObject.action?uri=info:doi/10.1371/journal.pone.0059742&representation=PDF>

The Increase in Mental Health Problems Among Children May Be Due to Cell Phone Radiation. <http://www.emfacts.com/2013/02/mona-nilsson-the-increase-in-mental-health-problems-among-children-may-be-due-to-cell-phone-radiation/>

Microwave Towers

Phone, National Broadband, Emergency Networks, Radio, TV

Parents Pulling Kids From School Because of Cell Tower. <http://fox5sandiego.com/2013/01/22/cell-tower-fears-have-parents-pulling-kids-out-of-school/#ixzz2PZo79Hk7>

Significant Decrease of Clinical Symptoms After Mobile Phone Base Station Removal - An Intervention Study. <https://elettrosensibili.files.wordpress.com/2015/10/shinjyo-2014-significant-decrease-of-clinical-symptoms-after-mobile-phone-base-station->

[removal-1.pdf](#)

Downloadable presentation. The Right to a Healthy Environment: RF Radiation Exposure From Cell Towers. http://www.katharinaconsulting.com/s/2015MAY20_Saanich_Microcell_Antenna_Presentation_2.pdf

"The RF exposures on the roof were from 175% to 300% of the general population MPE limit of 1 milliwatt per square centimeter." Cell Towers Raise New Concerns About Safety. <http://www.kpho.com/story/27348721/cell-towers-raise-concerns-about-safety>

"... the posh South Moti Bagh locality, where the nation's top bureaucrats stay. The entire locality has just one tower, as bureaucrats don't want them around." Telecom Operators, Activists and Government Grapple over Mobile Towers. <http://timesofindia.indiatimes.com/tech/tech-news/Telecom-operators-activists-and-government-grapple-over-mobile-towers/articleshow/48951833.cms>

Consequences of Chronic Microwave RF Exposure. <http://apps.fcc.gov/ecfs/document/view?id=7520940908>

NBN Wireless Towers





*Resident upset by 24 hour-a-day noise from
NBN tower generator.*

â€œIâ€™m always nauseous till I go out for the
day.â€ NBN Raises a Racket,
Telecommunications Tower a Headache for
Cooks Gap Resident. [http://
www.mudgeeguardian.com.au/story/2988215/
nbn-raises-a-racket-telecommunications-tower-
a-headache-for-cooks-gap-resident/](http://www.mudgeeguardian.com.au/story/2988215/nbn-raises-a-racket-telecommunications-tower-a-headache-for-cooks-gap-resident/)

Northern Tasmanian Children's Respite Service
to Move Interstate Over NBN Tower Fears.
[http://www.abc.net.au/news/2015-11-26/child-
respite-service-to-move-interstate-over-nbn-
tower-fears/6975636?section=tas](http://www.abc.net.au/news/2015-11-26/child-respite-service-to-move-interstate-over-nbn-tower-fears/6975636?section=tas)

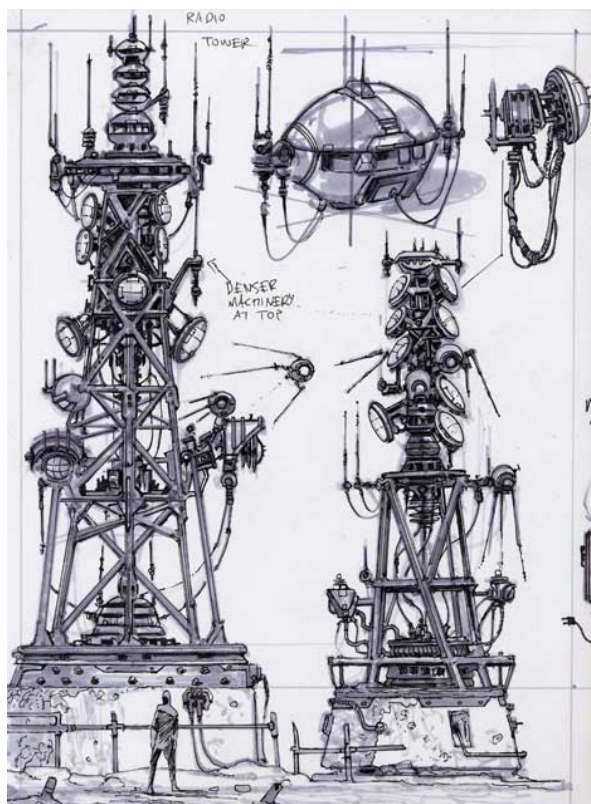
Is an NBN fixed wireless tower coming to your
neighbourhood? NBN's Three Year Construction
Plan. [http://www.nbnco.com.au/content/dam/
nbnco2/documents/three-year-construction-
plan.pdf](http://www.nbnco.com.au/content/dam/nbnco2/documents/three-year-construction-plan.pdf)

Plans to dump the NBN's performance shortfalls
and cost over-runs onto the private sector. The

end result will be independent players forced out of business compliments of taxpayers' dollars, and many NBN towers sprouting mobile phone antennae. Turnbull in Talks to Sell NBN to Large Telcos. <http://www.afr.com/business/telecommunications/turnbull-in-talks-to-sell-nbn-to-large-telcos-20151204-glfy5d>

Prime Minister Turnbull's own strategic review found that the expense of keeping the Multi Technology Mix (MTM) running just seven years after its completion will be the same as if they had installed Fibre to the Premises (FTTP). The Liberal Government is only investing \$1B less than Labor's all fibre plan and now cannot even achieve the minimum 25Mbps promised by 2016.

Successful Activism



"Our tower complies with all relevant safety standards."

It is an increasing occurrence worldwide that telcos are being forced to abandon or relocate microwave towers in populated areas.

Lexlip ESB Mast Will Have to Be Relocated in Two years. <https://www.facebook.com/photo.php?fbid=1642414282642978&set=a.1536471643237243.1073741827.100006232656807&type=3>

How We Prevented a New Cell Tower in Eugene Oregon. <http://www.electronicsilentspring.com/amazon-creek/>

Brownstown Residents Win Lengthy Battle to Stop Mobile Phone Mast. <http://www.mast-victims.org/index.php?content=news&action=view&type=newsitem&id=5426>

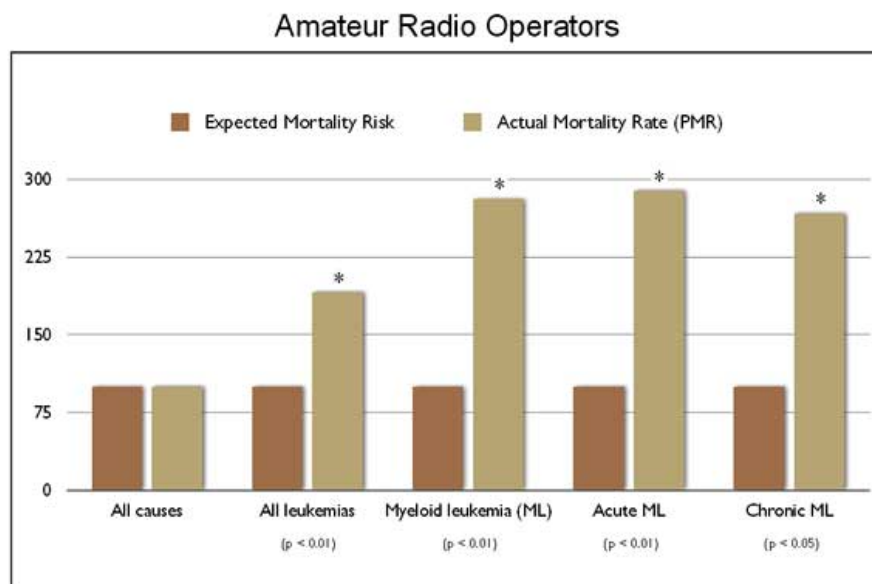
Judge Rules Chatham Township Properly Denied AT&T Cell Antennas According to Federal Law. <https://www.tapinto.net/towns/chatham/sections/law-and-justice/articles/judge-rules-chatham-township-properly-denied-at-and-t>

"Private nuisance". Court Rules Against Cell Tower Company. <http://www.muskogeephoenix.com/news/court-rules-against-cell-tower-company/>

article_b103cdb9-92d1-59c3-8b13-ffb657cc7c9a.html

Rajasthan HC Orders Relocation of Mobile Towers From Schools, Hospitals. http://articles.economictimes.indiatimes.com/2012-11-28/news/35408877_1_mobile-towers-cell-towers-s-israni

Radio and TV



Analysis of leukemia deaths in male members of the American Radio Relay League.

A standard industry argument is that we have been exposed to microwaves for decades with no negative effect. This claim is contradicted by numerous studies such as those below.

Silent Keys: Leukemia Mortality in Amateur Radio Operators. <http://www.cdc.gov/niosh/nioshtic-2/00150622.html>

Radio and TV Transmitter Overview. http://www.powerwatch.org.uk/rf/radio_tv.asp

Radio, TV Towers Linked to Increased Risk of Melanoma. <http://sgll.nu/MedPub/Ref35PATPHY645b.pdf>

Wi-Fi, Bluetooth

Home, Business, Hotspots



Hello Barbie has been reportedly modified following security concerns.

Interactive Barbie is Your Kids' Future BFF. <http://www.engadget.com/2015/02/17/interactive-barbie-speech/>

Toys Could Be Used as Spying Devices, MP's Told. <http://www.bbc.com/news/uk-politics-35043521>

34 Scientific Studies Showing Adverse Effects From Wi-Fi. <http://www.activistpost.com/>

2013/10/34-scientific-studies-showing-adverse.html

Legislation Eyed for Wi-Fi Warnings in County Buildings. http://www.theislandnow.com/great_neck/legislation-eyed-for-wireless-routers-in-nassau-county-buildings/article_24023694-3142-11e5-9924-cbbcf422243f.html

The Town That Banned Wi-Fi. <http://www.theguardian.com/technology/2015/jun/21/the-town-that-banned-wi-fi>

Company to Blanket City Streets With WiFi Connected "Smart Pavement". <http://www.activistpost.com/2015/10/company-to-blanket-city-streets-with-wifi-connected-smart-pavement.html>

"No longer will one need to carry a smart device while driving; the car itself will be the smart device." Special Report: Connected Car Will Be Hot Spot, Literally and Figuratively. <http://www.aglmediagroup.com/special-report-connected-car-will-be-hot-spot-literally-and-figuratively/>





"Smart" Trash Bins Bring Free Wi-Fi to the Streets of New York. <http://sputniknews.com/us/20150714/1024630363.html#ixzz3gDaPhtR5>

A Contraceptive Implant With Remote Control. <http://www.technologyreview.com/news/528121/a-contraceptive-implant-with-remote-control/>

This Man Can Hear Wi-Fi Wherever He Goes. Here's What It Sounds Like. <http://www.sciencealert.com/this-man-can-hear-wi-fi-wherever-he-goes-here-s-what-it-sounds-like>

Schools and Children





An example of sophisticated government thinking on Wi-Fi.

Invoking the Disability Discrimination Act 1992 and Article 9 - Accessibility from the Conventions on the Rights of the Disabled. Parent's Success in Stopping Wi-Fi Installation at Australian School. <http://www.emfacts.com/2015/11/parents-success-in-stopping-wifi-installation-at-australian-school-2/>

Wi-Fi Technology: Is the Honeymoon Over? Ashland School Committee Issues Best Practices for Wi-Fi Use. http://issuu.com/localtownpages/docs/2015_8_ashland/15?e=2040944/14450006

Heart problems began after Wi-Fi installed in School. A Father Speaks About Wi-fi in Schools and His Children's Health. <https://www.youtube.com/watch?v=Fv6kikjBzug>

Wi-Fi in Schools Proven Dangerous. <https://www.youtube.com/watch?v=KN7VetsCR2I>

Is Wireless technology in Swedish Schools Adversely Affecting Kids? <http://www.emfacts.com/2014/03/is-wireless-technology-in-swedish-schools-adversely-affecting-the-kids/>

Santa Clara American Medical Association
Bulletin. Refer to pages 16-21. Wi-Fi in Schools
- Are We Playing It Safe with Our Kids? [http://
issuu.com/18621/docs/bulletin_0415_web/16](http://issuu.com/18621/docs/bulletin_0415_web/16)



*The "smart uniform" makes school kids feel safe
in their smart-infested world.*

Kazakh Factory Produces School Uniforms that
Protect from Cell Phone Radiation. [http://
astanatimes.com/2015/09/kazakh-factory-
produces-school-uniforms-that-protect-from-
cell-phone-radiation/](http://astanatimes.com/2015/09/kazakh-factory-produces-school-uniforms-that-protect-from-cell-phone-radiation/)

Protect Children From EMF. [http://
www.tandfonline.com/doi/pdf/
10.3109/15368378.2015.1077339](http://www.tandfonline.com/doi/pdf/10.3109/15368378.2015.1077339)

Yes, the Children Are More Exposed to
Radiofrequency Energy From Mobile Telephones
Than Adults. [http://ieeexplore.ieee.org/stamp/
stamp.jsp?tp=&arnumber=7131429](http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7131429)

Microstructure Abnormalities in Adolescents
with Internet Addiction Disorder. <http://>

www.plosone.org/article/fetchObject.action?uri=info:doi/10.1371/journal.pone.0020708&representation=PDF

Time for a name change? Exposure to Electromagnetic Fields of Laptop Use of "Laptop" Computers. <http://www.ncbi.nlm.nih.gov/pubmed/22315933>

United Federation of Teachers on Wireless Radiation. <http://www.uft.org/our-rights/wireless-radiation>

Are iPads in Schools a Waste of Money - OECD Report Says Yes. <http://www.theage.com.au/victoria/are-ipads-in-schools-a-waste-of-money-oecd-report-says-yes-20150914-gjmnqf.html#ixzz3qzEn4pAX>

The education "revolution" that succeeded mostly in making tech companies more rich and more powerful. Ending the Digital Myth About Electronic Devices in Classrooms. <http://www.irishexaminer.com/viewpoints/analysis/ending-the-digital-myth-about-electronic-devices-in-classrooms-359977.html>

Petition: Say No to Forced Bring Your Own Device (BYOD). https://www.change.org/p/say-no-to-forced-bring-your-own-device?tk=U4wS5a3dTveEyIj2S-6a9E2KuoNdwml60CNOMaLyitA&utm_source=petition_update&utm_medium=email

Proteomic Analysis on the Alteration of Protein Expression in the Early-stage Placental Villous Tissue of Electromagnetic Fields Associated with Cell Phone Exposure. <http://www.ncbi.nlm.nih.gov/pubmed/23420827>

Possible Dangers of Exposure to Wi-fi and Baby Monitors. <https://www.youtube.com/watch?v=bsQKuu6qT4k>

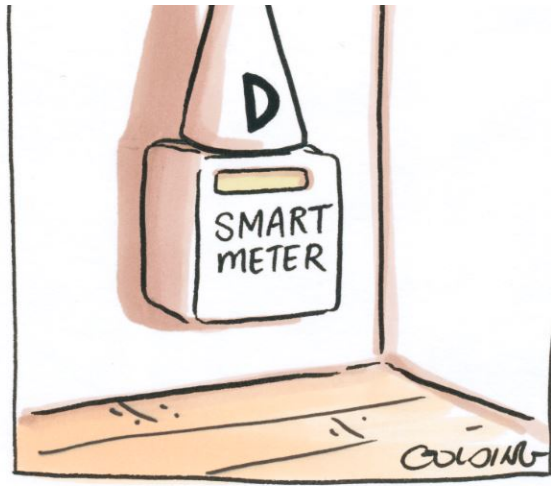
Low radiation methods for baby monitoring. Safe Baby Monitor. <http://www.emfanalysis.com/safe-baby-monitor/>

"Current FCC standards do not account for the unique vulnerability and use patterns specific to pregnant women and children. It is essential that any new standards for cell phones and other wireless devices be based on protecting the youngest and most vulnerable population to ensure they are safeguarded throughout their lifetimes." - American Academy of Pediatrics (2013).

Smart Grid

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





An informative flyer from the Michigan State House Energy Committee. My New Electric Meter Does What? http://www.emraware.com/documents/smart_meter_flyer.pdf

Beware of Propaganda to Quell Inconvenient Truths About Smart Meters - Part 1. <http://news.heartland.org/editorial/2015/07/17/beware-propaganda-quell-inconvenient-truths-about-smart-meters-part-1>

Appeals Court Judge Resoundingly Supports Consumers Energy Customers. http://dtesmartmeter.blogspot.com.au/2015/07/appeals-court-resoundingly-rules-for.html?utm_source=Smart+Meter+Education+Network+Newsletter+1-9-15&utm_campaign=d91b0643a5-appeals+court,+smen&utm_medium=email&utm_term=0_3ad4eb3057-d91b0643a5-97055457

Valuable insight into Court proceedings. Maine Supreme Court Smart Meter Oral Arguments

November 3, 2015. <https://www.youtube.com/watch?v=aWELJiL0sGw>

One reader reports that several house fires in Northcote, Geelong and Ararat VIC were caused by smart meter faults. 1000's of Smart Meter Fires: Whistleblower & Court Evidence. <https://takebackyourpower.net/1000s-of-smart-meter-fires-new-whistleblower-court-evidence-video/>

Reports of electricity providers removing evidence of fires caused by smart meters. Are Insurance Companies Avoiding the Smart meter problem? <http://www.examiner.com/article/are-insurance-companies-avoiding-the-smart-meter-problem>

Man Claims OUC's Smart Meter Made Him Sick, Files Federal Lawsuit. <http://m.wftv.com/news/news/local/man-claims-oucs-smart-meter-made-him-sick-files-fe/njKZc/>

In spite of thousands of complaints from consumers, a letter from Dr. Peter Frost, Deputy Auditor General, admitted "... examination of health-related issues associated with the smart meter roll-out in Victoria was not within the scope of VAGO's recent audit, 'Realising the Benefits of Smart Meters'".

This document was reportedly prepared by a solicitor and successfully prevented installation of a smart meter. We do not recommend

anyone should use it without first obtaining professional legal advice. Notice of Prohibition of Undue Harassment or Coercion for Smart Meter Installation. http://www.emraware.com/documents/notice_undue_harassment.doc

Economic Benefits?



We were promised gadgets like this to help reduce our electricity bill. How many people actually got one?

MA Activists Renew Call Against Smart Meters After Harvard's Fraud Report. <http://www.golocalworcester.com/news/ma-activists-renew-call-against-smart-meters-after-harvards-fraud-report>

Rate hikes? Loss of privacy? Township Committee refuses meters. Public Utility Pitches Smart Meters in Wyckoff. <http://www.northjersey.com/news/business/new-meters-not-so-fast-1.1411684?page=all>

Smart Meters Not Necessary to Modernize the Electric Grid Says a Major U.S. Utility. <http://smartgridawareness.org/2015/09/30/smart-meters-not-necessary-to-modernize-electric-grid/>

Why Smart Meters Don't Make a Smart Grid. <http://www.kpbs.org/news/2015/jun/16/why-smart-meters-dont-make-smart-grid/>

Smart meters were originally stated by their promoters to have an operational lifespan of 15-20 years. Smart Meters Have a Life of 5 to 7 Years. <http://smartgridawareness.org/2015/10/29/smart-meters-have-life-of-5-to-7-years/>

From Quebec, an in-depth look at possible collusion between city government and industry. Smart Meters, The Meshed Network. <http://detonateur.blogspot.ca/2015/03/smart-meters-meshed-network.html>

No time-of-use (TOU) component in billing to verify electricity charges. According to Senator Nick Xenophon "this could be one of Australia's biggest consumer rip-offs ...". Power Scandal Exposed. <https://powertracker.com.au/article/power-scandal-exposed>

Privacy and Security

Smart Lights: New LEDs Allow NSA To Spy On Your Every Movement. <https://>

www.youtube.com/watch?v=6kSEnSVFD5o

"Funtenna" Uses Sound Waves, Radio to Hack Internet of Things. <http://www.rt.com/usa/311689-funtenna-hacking-sound-waves/>

The "internet of things" is a spy network disguised as consumer goods. Oh No ZigBee, as Another Front Opens on Home Networking Insecurity. http://www.theregister.co.uk/2015/08/06/zigbee_insecurity_home_networking_oit/?page=1

So Who Owns Your Energy Use Data? <http://www.windpowerengineering.com/policy/environmental/so-who-owns-your-energy-use-data/>

Wearable Tech

Biometrics, Implants, Artificial Intelligence

Another grand scheme to wirelessly invade your body. RedTacton Near-body Electric-field Communications Technology and Its Applications. https://www.ntt-review.jp/archive/ntttechnical.php?contents=ntr201003sf1.pdf&mode=show_pdf





Jeans with a built-in phone pouch.

Effect of Cell Phone Usage on Semen Analysis in Men Attending Infertility Clinic: An Observational Study. <http://www.ncbi.nlm.nih.gov/pubmed/17482179>

Effects of Chronic Exposure to 2G and 3G Cell Phone Radiation on Mice Testis. <http://www.scopemed.org/fulltextpdf.php?mno=181637>

List of References Reporting Fertility and/or Reproduction Effects from EMF or RF. <http://www.wirelesswatchblog.org/wp-content/uploads/2011/06/FertilityCitations2011WithAbstracts.pdf>





Allergic skin inflammation due to nickel content in mobile phones is another possible consequence of bodily contact. <http://www.dailymail.co.uk/health/article-3227835/iPhone-6-leaves-man-horrific-painful-rash-severe-allergic-reaction-nickel-contains.html>

Mains Radiation, ELF

Powerlines, Wiring, Appliances

A slide co-presentation by the University of Bristol, and Children with Cancer UK. Scientific Basis of the Health Effects of Electric and Magnetic Fields Associated with the Electricity Supply. http://www.electric-fields.com/Henshaw_Prof_Denis_Ireland_10_Feb_2014.pdf

Pollution Made By EMF Dirty Power and AC Magnetic Fields. <http://www.sott.net/article/296453-EMF-Pollution-Man-Made-EMF-Dirty-Power-and-AC-magnetic-fields>

A review of the early scientific literature by Dr. Robert O Becker, author of "The Body Electric". Biological Effects of Extremely Low Frequency Electric and Magnetic Fields. http://ss1.spletnik.si/4_4/000/000/225/795/Pregledni--lanek_BIOLOGICAL-EFFECTS-OF-

EXTREMELY-LOW-FREQUENCY.pdf

Evidence for an Effect of ELF Electromagnetic Fields on Human Pineal Gland Function. <https://efile.mpsc.state.mi.us/efile/docs/13934/0073.pdf>

The Effects of Extremely Low-frequency Magnetic Fields on Melatonin and Cortisol, Two Marker Rhythms of the Circadian System. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3553569/pdf/DialoguesClinNeurosci-14-381.pdf>

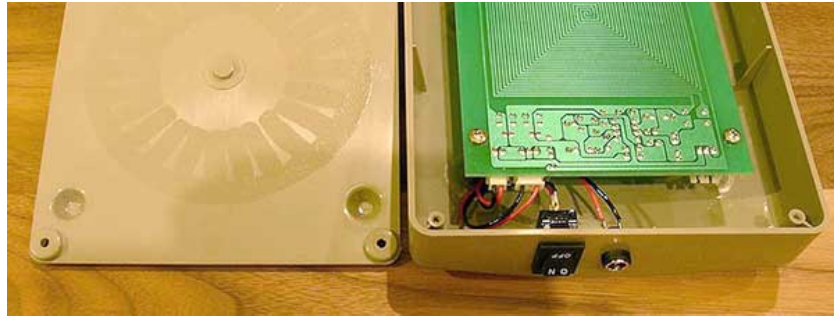
Embryological Changes Induced by Weak, Extremely Low Frequency Electromagnetic Fields. <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC1167891/pdf/janat00219-0119.pdf>

The adult human body is 55-70% water by weight. Effects of Pulsed Low Frequency Electromagnetic Fields on Water Characterized by Light Scattering Techniques. <http://arxiv.org/vc/physics/papers/0502/0502075v1.pdf>

On the Effect of Weak Magnetic Field on Solutions of Glutamic Acid: the Function of Water. <http://m.iopscience.iop.org/article/10.1088/1742-6596/329/1/012025/pdf>

Psychotronics





The RR77 "Acoustic Revive" is one of several hi-fi audio accessories that utilise transmitted ELF waves to enhance sound/listening quality. It consists of 7.8Hz (Schumann resonance) sinewave generator, and printed circuit coil with bifilar windings driven in oppsition.

Further to the above, here is a brief journey into the fascinating world of "psychotronics" with noted pioneer, the late Bob Beck. Mood Modulation with ELF Electromagnetic Fields: A Preliminary Investigation. <http://www.bobbeck.com/pdfs/beck-article-mood-modification-with-elf.pdf>

Transport, Aerospace

Motor Vehicles, Aircraft, Satellites





Internet balloon dangling its solar-powered microwave transceiver.

Google Installing 20,000 Internet-enabled Balloons in Indonesia. <http://www.theguardian.com/technology/2015/oct/28/google-installing-20000-internet-enabled-balloons-in-indonesia>

Google Project Loon Balloons to Blanket Indonesia with Internet. <http://www.thestar.com/business/2015/10/29/google-project-loon-balloons-to-blanket-indonesia-with-internet.html>, <https://googleblog.blogspot.ca/2015/10/indonesia-loon-internet.html>

"The number of airline employees this year, including pilots and flight attendants, who report having difficulty with WiFi seems to be growing." Aviation Health & Safety in the Digital Age Radio-frequency (RF) Exposure from Mobile Devices and In flight WiFi – A New Human Factor? http://safertechsolutions.net/wp-content/uploads/2013/08/In-flight-WiFi-Health-Safety-Issues_STolutions.pdf. And more. <http://apps.fcc.gov/ecfs/document/view?id=7022127205>

Environment, Wildlife



An example of industry's incongruous association of wireless technology with freedom in nature.

Conspicuous Behavioural Abnormalities in a Dairy Cow Herd Near a TV and Radio Transmitting Antenna. <http://www.whale.to/b/loscher.html>

Bees, Birds and Mankind - Destroying Nature by "Electrosmog". http://www.hese-project.org/hese-uk/en/papers/warnke_bbm.pdf

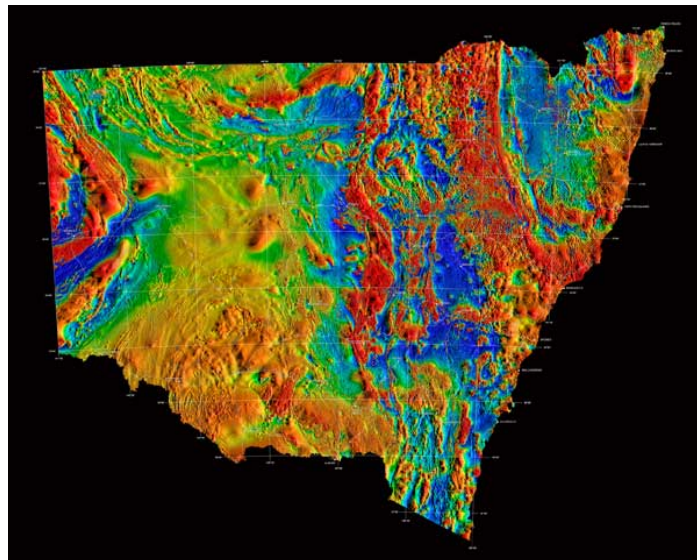
We are continually discovering that living organisms are far more sensitive than previously suspected. Scientists Confirm That Plants Talk and Listen To Each Other, Communication Crucial for Survival. <http://www.medicaldaily.com/scientists-confirm-plants-talk-and-listen-each-other-communication-crucial-survival-240775>

The Olympic Peninsula Is Not For

Electromagnetic Warfare Training. <https://www.youtube.com/watch?v=aiWCA-X9ihM&feature=youtu.be>

Another purportedly noble scheme with unforeseeable consequences. Microwaving the atmosphere to reduce greenhouse gas Methane. Lucy-Alamo Projects - Hydroxyl Generation and Atmospheric Methane Destruction. <http://arctic-news.blogspot.com.au/2015/10/lucy-alamo-projects-hydroxyl-generation-and-atmospheric-methane-destruction.html>

Geomagnetic Influence



*Geomagnetic map of the State of NSW
Australia.*

Research suggests that bio-response to technological EMR can depend upon local geomagnetic field intensity. A Role for the Magnetic Field in the Radiation-Induced Efflux of Calcium Ions From Brain Tissue In Vitro. <http://>

www.oregonstatehospital.net/d/otherfiles/998154.pdf

On the Cyclotron Resonance Mechanism for Magnetic Fields on Transmembrane Ion Conductivity. http://www.cmps.lu.se/fileadmin/mps/Departments/BPC/Halle_group/Papers/1988_Bioelmag_Cyclotron.pdf

Mechanisms of Geomagnetic Field Influence on Gene Expression Using Influenza as a Model System: Basics of Physical Epidemiology. <http://www.mdpi.com/1660-4601/7/3/938/pdf>

Security

Body Scanners, Surveillance, Non-lethal Weapons



Operator's eye view of a non-lethal weapon

based upon millimeter waves.

Bioeffects of Selected Non-lethal Weapons.
http://thermoguy.com/wp-content/uploads/Bioeffects_of_Selected_Non-Lethal_Weapons1.pdf

Strangely, in this field trial enemy are depicted as persons who would carry signs for "world peace". Vehicle-Mounted Active Denial System (V-MADS). <https://www.youtube.com/watch?v=dmuyLIrSjxI>

A National Academy of Sciences report, included here for its extensive documentation on EMR bio-effects. Assessment of the Possible Health Effects of Ground Wave Emergency Network.
http://www.ncbi.nlm.nih.gov/books/NBK208990/pdf/Bookshelf_NBK208990.pdf

Data Retention and the End of Australians' Digital Privacy. <http://www.smh.com.au/technology/technology-news/data-retention-and-the-end-of-australians-digital-privacy-20150827-gj96kq.html#ixzz3l6absiZu>

US Appeals Court Rules NSA's Bulk Collection of Americans' Phone Records Illegal. <http://www.abc.net.au/news/2015-05-08/us-appeals-court-rules-nsa-phone-surveillance-illegal/6453968>

Selling data to banks. Your facebook Friends Could Cost You a Loan. <https://>

shadowproof.com/2015/09/03/your-facebook-friends-could-cost-you-a-loan/

Passive radar. Another reason why the authorities want to see Wi-Fi everywhere is to see YOU. Wi-Fi: See Through Walls with Wi-Fi Signals. <https://www.youtube.com/watch?v=uJkQzLjYBFI>

Biological Mechanisms

Biological Effects of Low Power Microwaves: Experimental Evaluation at Molecular and Cellular Levels. <https://researchbank.rmit.edu.au/eserv/rmit:161237/Alsuhaime.pdf>

Early Research on the Biological Effects of Electromagnetic Radiation: 1940-1960. http://waves.lima-city.de/dok/Early_Research_on_the_Biological_Effects_of_Microwave_Radiation_1940-1960.pdf

Documents on Wireless Technology and Health. <http://www.scribd.com/doc/291507610/Documents-on-Wireless-Technology-and-Health-by-Ronald-M-Powell-Ph-D>

Human Disease Resulting From Exposure to Electromagnetic Fields. http://nyspta.neric.org/pdf/Advocacy/369_EMF.PDF

For those who have not yet read Dr. Robert O

Becker's classic work, you can download a copy here. The Body Electric - Electromagnetism and the Foundation of Life. <https://ia601407.us.archive.org/14/items/pdfy-uFS7t2QiFyjQb0sU/The%20Body%20Electric.pdf>

Possible relevance to EHS. Limbic Kindling: Hard Wiring the Brain for Hypersensitivity and Chronic Fatigue Syndrome. <http://www.cortjohnson.org/blog/2014/05/17/limbic-kindling-hard-wiring-brain-hypersensitives-chronic-fatigue-syndrome/>

Cancer Induction Molecular Pathways and HF-EMF Irradiation. http://www.emraware.com/documents/emf_cancer_induction.pdf

Oxidative Mechanisms of Biological Activity of Low-intensity Radiofrequency Radiation. <http://www.tandfonline.com/doi/abs/10.3109/15368378.2015.1043557?journalCode=iebm20>

There are variables in EM waves that current "safety" regulations do not even begin to account for. Polarization: A Key Difference Between Man-made and Natural Electromagnetic Fields, in Regard to Biological Activity. <http://www.nature.com/articles/srep14914>

As with many other molecules, insulin relies upon chirality for its essential metabolic effect.

Is it possible this can be altered by exposure to EMR? Dirty Electricity Elevates Blood Sugar Among Electrically Sensitive Diabetics and May Explain Brittle Diabetes. http://www.magdahavas.com/wordpress/wp-content/uploads/2010/03/08_Havas_Diabetes_EBM.pdf



The following four video presentations feature neuroscientist Prof. Olle Johansson of the prestigious Karolinska Institute in Stockholm Sweden.

Adverse Health Effects of Modern EMF From Wireless Telecom. <https://www.youtube.com/watch?v=mTCw5QjdVRs&feature=youtu.be>
Q&A - Open Mind Conference, Denmark 2014.

The effects of electromagnetic fields. https://www.youtube.com/watch?v=M6HLFz_Y8hI

Health Effects of Electromagnetic Fields.

<https://www.youtube.com/watch?v=I5udG8OCZWY&feature=youtu.be>

Radiation from Antennas, Wi-Fi, Mobile Phones - Damage to Health. <https://www.youtube.com/watch?v=78gHGTnltxI>

A list of documented adverse effects of low level

microwave exposure compiled by Steve Weller of the newly formed Oceania Radiofrequency Scientific Advisory Association (ORSAA).

- Increases Permeability of Blood Brain Barrier and gut. <http://www.news-medical.net/news/20151012/Single-drop-of-blood-in-the-brain-can-activate-autoimmune-response-akin-to-multiple-sclerosis.aspx>
- Opens the blood-brain barrier to viruses and toxins
- Increases excitability at neuronal synapses
- Damage nerves in the scalp
- Causes diverse neuropsychiatric changes, including depression
- Disrupts brain activity, alter brain waves (EEG readings), alter brain chemistry and alter the brain's electrical activity during sleep
- Lowers levels of night time melatonin; sleep disruption and insomnia
- Causes memory loss and mental confusion
- Poor exploration of the local environment, motivation waning
- Causes headaches and induce extreme fatigue
- Alters chronobiology leading to stress response
- Stresses the endocrine system, especially pancreas, thyroid, ovaries and testes
- Causes single strand and double strand breaks in cellular DNA (via Oxidative stress pathways) - can lead to Cancer
- Increases in tumour genesis due to fragility and altered expression of RNA and DNA
- Alters hormone and sex steroid levels
- Leads to both male and female infertility
- Peripheral neurological effects leading to noxious and abnormal sensations or Dysesthesia

Electro Hypersensitivity (EHS)





Functional MRI is now being utilised to document the effects of EMR applied to the brain.

Electromagnetic Hypersensitivity: A Summary by Dr Erica Mallery-Blythe - December 2014. <http://www.iemfa.org/wp-content/pdf/Mallery-Blythe-v1-EESC.pdf>

Prof. Darius Leszczynski on EHS. <https://betweenrockandhardplace.wordpress.com/2015/10/19/leszczynskis-opinion-on-ehs-presented-before-soterko-finland/>

Electrohypersensitivity: A Functional Impairment Due to an Inaccessible Environment. <http://www.ncbi.nlm.nih.gov/pubmed/26613327>

Prof. Trevor Marshall. How Radio Waves Make You Sicker. <https://www.youtube.com/watch?v=37j2jDN8IVo&feature=youtu.be>

The Implications of Non-linear Biological Oscillations on Human Electrophysiology for Electrohypersensitivity (EHS) and Multiple Chemical Sensitivity (MCS). <http://www.ncbi.nlm.nih.gov/pubmed/26368042>

Reliable Disease Biomarkers Characterizing and Identifying Electrohypersensitivity and Multiple Chemical Sensitivity as Two Etiopathogenic Aspects of a Unique Pathological Disorder. <http://www.degruyter.com/view/j/reveh.2015.30.issue-4/reveh-2015-0027/reveh-2015-0027.xml?format=INT>

Electromagnetic Hypersensitivity: Evidence for a Novel Neurological Syndrome. <http://www.ncbi.nlm.nih.gov/pubmed/21793784?dopt=Abstract>

EUROPAEM EMF Guideline 2015 for the Prevention, Diagnosis and Treatment of EMF-related Health Problems and Illnesses. <http://www.ncbi.nlm.nih.gov/pubmed/26613329>

Meanwhile the World Health Organisation stolidly contends that anything THEY cannot explain must be unfounded or imaginary. Living a Life Cursed by Technology. <http://kernelmag.dailydot.com/issue-sections/headline-story/13782/ehs-electromagnetic-hypersensitivity-real/>

Doctor's Information Package. <http://www.wirelesswatchblog.org/wp-content/uploads/2011/06/For-Website-Doctors-information-package-October-2012-word2.pdf>

Desperately Seeking White Zone (new video trailer). <https://www.youtube.com/watch?>

v=PSK7ciWMFmE

An EHS online survey organised by Prof. Beatrice A. Golomb of the UC San Diego School of Medicine. https://golombgroup.az1.qualtrics.com/jfe/form/SV_bBkSI2GWMqT5w7b

Psychological Impacts

Mental Health and Microwaves. <https://open.abc.net.au/explore/53bp3uy>

Fetal Radiofrequency Radiation Exposure From 800-1900 Mhz-Rated Cellular Telephones Affects Neurodevelopment and Behavior in Mice. <http://www.nature.com/articles/srep00312>

The Effect of Technology on Face-to-face Communication. <https://www.elon.edu/docs/e-web/academics/communications/research/vol6no1/02DragoEJSpring15.pdf>



"My phone makes me feel safer". Phone case with built-in pepper spray.

Mobile Phones or Pepper Spray? http://www.researchgate.net/publication/263310394_Mobile_Phones_or_Pepper_Spray

Electronic Drug Trade

Having made big money on the "digital revolution", there is now more to be made in helping its frazzled adherents escape from it. The November 2015 issue of JetStar Magazine features a five-page article on ten upmarket "digital detox" destinations for people who are too addicted to do it at home.

12 Unexpected Symptoms of Phone Addiction. <http://www.addictiontips.net/phone-addiction/phone-addiction-symptoms/>

The Invisible Addiction: Cell-phone Activities and Addiction Among Male and Female College Students. <http://www.akademai.com/doi/pdf/10.1556/JBA.3.2014.015>

Addiction to Cell Phones: Are There Neurophysiological Mechanisms Involved? http://www.researchgate.net/publication/238032691_Addiction_to_cell_phones_are_there_neurophysiological_mechanisms_involved

The latest in a series of books by MIT Professor

Sherry Turkle that explores the alienating effects of electro-technology. Reclaiming Conversation: The Power of Talk in the Digital Age. <http://sherryturkle.com/books>

A Photographer Is Removing Phones From His Images to Show How Addicted We Are. <http://notable.ca/a-photographer-is-removing-phones-from-his-images-to-show-how-addicted-we-are/>

Safety Standards

Regulations, Bans and Warnings

A US Air Force review published in 1994 citing over 30 years of prior research.

Radiofrequency/Microwave Radiation Biological Effects and Safety Standards: A Review. <http://www.stopthecrime.net/docs/RF-Microwave-Radiation-Biological-Effects%20Rome%20Labs.pdf>

Downloadable slide presentation by Dr. Joel M. Moskowitz of the University of California at Berkeley School of Public Health. Wireless Phone Radiation Risks and Public Health Policy. <https://drive.google.com/file/d/0B14R6QNkmaXudDNxbjdjTEc4Nzg/view>

Fielding a Current Idea: Exploring the Public Health Impact of Electromagnetic Radiation. <http://www.bcuc.com/Documents/Proceedings/>

2008/DOC_18756_C3-23_HARLINGTON_C-
Evidence_18.pdf

Worldwide Countries Taking Action. [http://
www.parentsforsafetechnology.org/worldwide-
countries-taking-action.html](http://www.parentsforsafetechnology.org/worldwide-countries-taking-action.html)

National Activity Report - The Israeli National
Information Center for Non-Ionizing Radiation,
and others. [http://www.who.int/peh-emf/
project/mapnatreps/ISRAEL_2015.pdf](http://www.who.int/peh-emf/project/mapnatreps/ISRAEL_2015.pdf)

A well-researched article on the need for tighter
regulations. Comment for the Access Board on
EMR Exposure. [http://
www.electronicssilentspring.com/comment-
access-board-emr-exposure/](http://www.electronicssilentspring.com/comment-access-board-emr-exposure/)

Former CPUC President Loretta Lynch Delivers
Searing Indictment of Smart Meters and EMF
Risks at Mountain View Wireless Summit.
[http://stopsmartmeters.org/2015/10/13/
former-cpuc-president-loretta-lynch-flanked-by-
physicians-and-researchers-delivers-searing-
indictment-of-smart-meters-and-emf-risks-at-
mountain-view-wireless-summit/](http://stopsmartmeters.org/2015/10/13/former-cpuc-president-loretta-lynch-flanked-by-physicians-and-researchers-delivers-searing-indictment-of-smart-meters-and-emf-risks-at-mountain-view-wireless-summit/)

See the most stringent EMR safety standards in
the world. Salzburg Precautionary Limits.
[http://www.emraware.com/documents/
salzberg_precautionary_limits.docx](http://www.emraware.com/documents/salzberg_precautionary_limits.docx)

The Cone of Silence



*The truth about EMR is systematically hidden
from the public.*

Institute of Environmental Health Secrets:
NIEHS Mum on \$25 Million RF Animal Project.
<http://microwavenews.com/news-center/ntp-rf-animal-studies>

"Tactical ignorance" is a crude attempt to evade responsibility. C4ST Analysis of Ignored Studies (213 pages). <http://c4st.org/website-pages/hc-resolution-documents/c4st-analysis-of-ignored-studies-full.html>

Of course the type of collusion described in the following article would never happen in Australia. Captured Agency: How the Federal Communications Commission is Dominated By the Industries It Presumably Regulates. http://ethics.harvard.edu/files/center-for-ethics/files/capturedagency_alster.pdf

ICNIRP's 8th re-enactment of its International Non-ionising Radiation (NIR) Workshop will be held in faraway South Africa next year (2016). <http://www.icnirp.org/en/workshops/article/workshop-nir2016.html>

“Where there are threats of serious or irreversible damage, lack of full scientific certainty shall not be used as a reason for postponing cost-effective measures to prevent environmental degradation.”

Principle 15. Report of the U.N. Conference on Environment and Development, Rio de Janeiro, 1992

Industry Watch

Product Defense, Liability and Legal Action

A review of the UNSW Sydney "Faculty of Law" program. Risks, Regulations & Liability of EMF Radiation Exposure. <http://en.geovital.com/risks-regulations-and-liability-around-exposing-people-and-students-to-wireless-technology-emf-radiation-part1/>

At the above event, representatives of the [ACEBR](#) and [ARPANSA](#) were confronted regarding their apparent lack of recognition of biological effects such as are documented in thousands of peer-reviewed studies worldwide. It has been

reported that a formal complaint was subsequently lodged with the UNSW by the ARPANSA regarding the mention of any scientific evidence that does not support their official view.

The Legality of EMF's. <https://www.youtube.com/watch?v=FCvvcxWGUOk>

Wi-Fi Sensitivity Could Result in Disability Pay. <http://www.dvcinquirer.com/opinion/2015/09/29/wi-fi-sensitivity-could-result-in-disability-pay/>



Doubling up on lucrative addictions. Mobile phone with built-in cigarette pack.

Quote from the book, "Doubt is Their Product: How Industry's Assault on Science Threatens your Health".

For almost half a century, the tobacco companies hired consultants and scientists, swarms of them in times of

greatest peril, initially to deny (sometimes under oath) that smokers were at greater risk of dying of lung cancer and heart disease, and later to refute the evidence that secondhand smoke increases disease risk in nonsmokers. The industry and its scientists manufactured uncertainty by questioning every study, dissecting every method and disputing every conclusion. What they could not question was the enormous, obvious casualty count; the thousands of smokers who die every day from a disease directly related to their habit. Despite the overwhelming scientific evidence, the tobacco industry was able to wage a campaign that successfully delayed regulation and victim compensation for decades and it is still doing so."

Corporate Manslaughter in Australia. <http://www.ethicalpolitics.org/seminars/corporate-manslaughter.pdf>

Does the installation of Wi-Fi in public places and transport disadvantage people with EHS? Australian Human Rights Commission - The In's and Out's of Access. <https://www.humanrights.gov.au/dda-guide-ins-and-outs-access>

In a strange twist of legislative logic, it is apparently discriminatory to restrict access to Wi-Fi on the basis of disability, but not so to force EHS disabled persons to be routinely exposed to wireless radiation. <http://www.humanrights.gov.au/world-wide-web-access-disability-discrimination-act-advisory-notes-ver-40-2010>

From the UN Committee on the Rights of Persons with Disabilities. "As long as goods, products and services are open or provided to the public, they must be accessible to all, regardless of whether they are owned and/or provided by a public authority or a private enterprise." Id. at para. 13. "The strict application of universal design to all new goods, products, facilities, technologies and services should ensure full, equal and unrestricted access for all potential consumers, including persons with disabilities, in a way that takes full account of their inherent dignity and diversity." General Comment No. 2 (2014) Article 9: Accessibility. <http://daccess-dds-ny.un.org/doc/UNDOC/GEN/G14/033/13/PDF/G1403313.pdf?OpenElement>

EMR Countermeasures

Personal Precautions and Monitoring



Eyes for the so-called "infosphere". Architecture of Radio app allows you to see EMF's associated with Wi-Fi. <http://www.architectureofradio.com/>

Stuck with It?

An increasing number of self-styled activists are promoting items advertised to protect against various forms of EMR. It is reported that some have deep connections with the telecommunications industry. They may target communities that express significant levels of concern, thus capitalising upon prior awareness raised by local opposition groups.



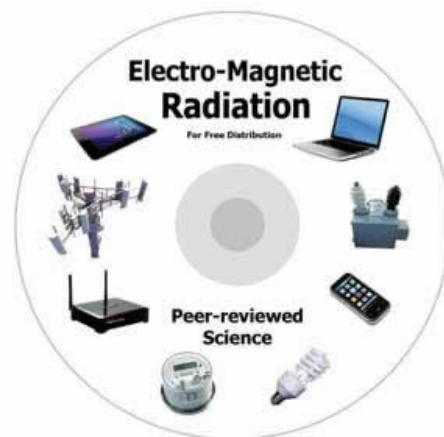
Even nationwide stores are getting in on the act. This sticker claiming to reduce phone radiation by "up to 95%" retailed for \$59.95 at Chemist Warehouse. The ATMA and ARPANSA warn that such products are ineffective. If the sticker did reduce radiation, the phone could simply compensate by emitting a stronger signal. Effectiveness would also depend very much upon which side of the user's head the tower was on. If the solution was so simple why do phone manufacturers not incorporate it into their products? It is plausible that the only reason these goods have not already been banned from sale is because they serve the telecom industry by making concerned people feel safer. <http://www.chemistwarehouse.com.au/Buy/77336/Patchd-iPhone-4-4s-5-5s-Silver>

When just feeling safe is not reassuring enough, here is a selection of credible precautionary methods. Options to Minimize EMF/RF/Static Field Exposures in Offices - Effects of Exposures to Non-ionizing Radiation in Office Environments. www.katharinaconsulting.com/s/2008_Gustavs_Low_EMF_Office_Environment.pdf

On Google Books, you can read similar recommendations in The Electronic Silent Spring: Facing the Dangers and Creating Safe

Limits. https://books.google.com.au/books?id=HuqBAwAAQBAJ&pg=PT174&lpg=PT174&dq=industry+silent+on+emr+health&source=bl&ots=RGo5QHwJUP&sig=Ln-TnT33VI1thJo-LjXPEc-myfo&hl=en&sa=X&ved=0ahUKEwic0tCc0sbJAhUIHKYKHZT_AUQQ6AEILjAE#v=onepage&q=industry%20silent%20on%20emr%20health&f=false

General Events & Networking



In response to persons who requested an educational DVD dedicated entirely to peer-reviewed science, we have just released this compilation of over 1200 articles and abstracts in PDF. This should be enough to convince anyone who is skeptical regarding the adverse biological effects of EMR. As part of our service, the DVD is available by request to be posted free of charge to any address within Australia.

Here is a new petition requesting that the World Health Organisation officially recognise EHS.

https://secure.avaaz.org/en/petition/World_Health_Organization_Include_EHS_ans_MCS_in_the_International_Classification_of_Diseases/

Producer Sarah Newman is inviting EHS-affected persons to send her short videos for inclusion in the new film "Generation Zapped". Email her for further details.

sarah.generationzapped@gmail.com,
www.generationzapped.com

Notice:

If you are an employee or agent of a public or private corporation that deals with electrotechnology or policy related to same, please be advised that this EMR Aware Newsletter is deemed by its publisher to constitute duly served Legal Notice upon you of health and safety matters pertaining to human exposure to electromagnetic radiation (EMR), and additionally that you are hereby requested to peruse said Newsletter and exercise in accordance with the content of same the utmost due diligence and duty of care.





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