



EMR Aware

Electromagnetic Radiation - Concerns and Informed Choices

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Newsletter July - August 2016

This free occasional newsletter is published by EMR Aware, a group of concerned citizens based in Northern NSW Australia. It is intended to help provide up-to-date information on the health, environmental, and social impacts of modern electro-technologies. This is done in the public interest to assist a fair and balanced discussion of the topics at hand. Particular attention is given to content that may not

otherwise be made available or openly acknowledged by industry and their government regulators.

We invite readers to consider the scientific evidence and trending opinion on this page, and throughout prior editions of our newsletter.

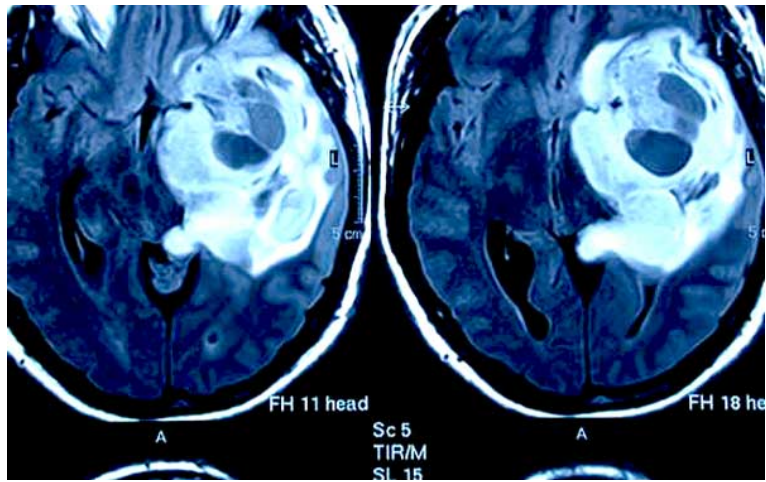
There seems little doubt a tobacco-style cover-up of the adverse effects of EMR is underway by those reliant upon its profitability or surveillance potential. You can help redress this situation by forwarding a link to this web page to as many interested persons, organisations, and social media sites as possible. Anyone wishing to receive our newsletter regularly may do so by sending an [email](#) with the word "subscribe" in the subject line.

Special Message

Thank you to the many readers who, in response to our recent email, contacted the Karolinska Institute in Sweden in support of Prof. Olle Johansson. For further information, see the General Events and Networking section of this page.

Mobile and Cordless Phones





MRI brain scan of a Glioma tumour.

See this page for links to dozens of informative articles on EMR, mobile phones, and health.

Week's MD - Cell Phone Search Results. <http://weeksmd.com/category/corrective-clinics/environmental-health/cell-phone/>

Business Executive Who Claimed Spending Six Hours a Day on His Mobile Gave Him Brain Cancer Dies Aged 44. <http://www.dailymail.co.uk/health/article-3600739/Business-executive-claimed-spending-six-hours-day-mobile-gave-cancer-dies-aged-44.html?login#readerCommentsCommand-message-field>

New Study - Phone Radiation Causes Cancer





"I got cancer so you don't have to."

Report of Partial Findings from the National Toxicology Program Carcinogenesis Studies of Cell Phone Radiofrequency Radiation in Hsd: Sprague Dawley SD Rats (Whole Body Exposures). <http://biorxiv.org/content/biorxiv/early/2016/05/26/055699.full.pdf>

The following several articles examine why the above longterm study represents a positive turning point in the acknowledgement of EMR-related health effects.

National Toxicity Program Finds Cellphone Radiation Causes Cancer. <http://www.saferemr.com/2016/05/national-toxicology-progam-finds-cell.html>

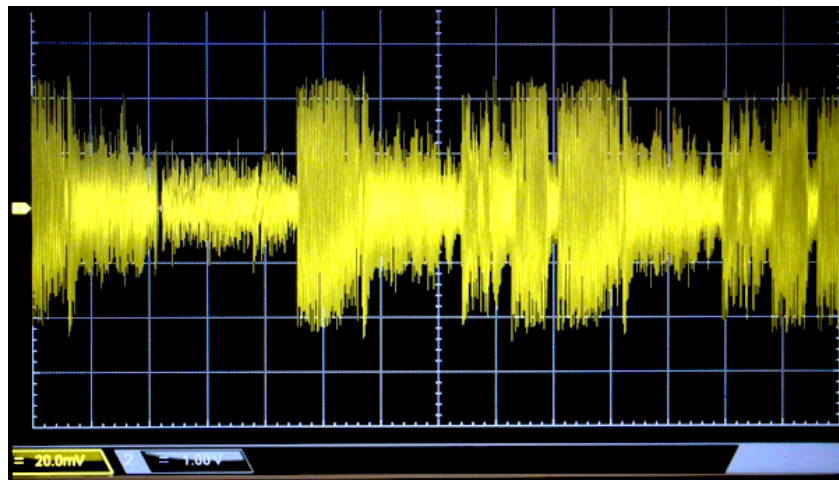
Cell Phones and Brain Tumors - Leaked Insight from the U.S. National Toxicology Program. <http://www.cnsneurosurgery.com.au/breaking-news-cell-phones-and-brain-tumors-leaked-insight-from-the-u-s-national-toxicology-program/>

Cell Phone Radiation Boosts Cancer Rates in Animals; \$25 Million NTP Study Finds Brain Tumors. U.S. Government Expected To Advise Public of Health Risk. <http://microwavenews.com/news-center/ntp-cancer-results>

US Cellphone Study Fans Cancer Worries.

<http://www.wsj.com/articles/u-s-cellphone-study-fans-cancer-worries-1464393051>

Cellphone Radiation Linked to Cancer in Major Rat Study. <http://spectrum.ieee.org/the-human-os/biomedical/ethics/cellphone-radiation-causes-cancer-in-rats>



A mobile phone signal is comprised of highly inductive, fast rise time pulses, known to interfere with biological functions.

5G - Into the Unknown

As if there was not already enough cause for concern, the new 5G network will operate at frequencies up to 100GHz, reaching well into the relatively unstudied "millimeter wave" band. Could the 5G Future Pose a Health Risk? <http://www.lightreading.com/mobile/5g/could-the-5g-future-pose-a-health-risk-/d/d-id/723324>

"5G" Roll-out Worries Wi-Fi Health Advocates.

<http://www.emfacts.com/2016/07/5g-rollout-worries-wi-fi-health-advocates/>

Massey University Researchers Delve into Potential Health Impacts of 5G. <http://www.fiercewireless.com/tech/story/massey-university-researchers-delve-potential-health-impacts-5g/2016-05-16>

Clinton's Support of 5G Rapped by Health Advocates. <http://www.odwyerpr.com/story/public/7235/2016-07-13/clintons-support-5g-rapped-by-wi-fi-health-advocates.html>

Nonetheless, the FCC recently fast-tracked approval of the 5G spectrum. Below is a quote from Tom Wheeler's sales pitch at the recent Spectrum Frontiers Proceeding.

"(The) 5G buildout is going to be very infrastructure intensive, requiring a massive deployment of small cells ... (that will) open up unprecedented opportunities for frequency reuse and denser, more localized networks." He continued, "(We will) ... stay out of the way of technological development ... Unlike some countries, we do not believe we should spend the next couple of years studying what 5G should be, how it should operate, and how to allocate spectrum ... Turning innovators loose is far preferable to expecting

committees and regulators to define the future."

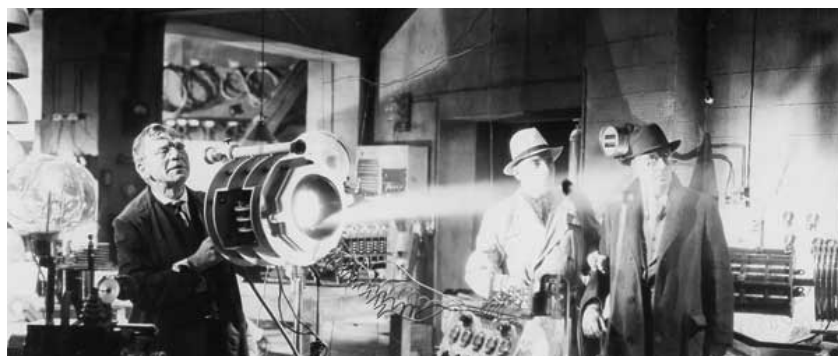
Here is his full presentation. http://transition.fcc.gov/Daily_Releases/Daily_Business/2016/db0620/DOC-339920A1.pdf

This is what can happen at FCC events when someone expresses opposing views. <https://skyvisionsolutions.files.wordpress.com/2016/07/fcc-press-conference-question.mp4>

Meanwhile, the outdated thermal heating model lingers on as a proposed measure of safety for 5G. "We have suggested the use of temperature elevation in the human head or body as a valid compliance evaluation method for mmWave exposure ..." The Human Body and Millimeter-Wave Wireless Communication Systems: Interactions and Implications. <https://arxiv.org/vc/arxiv/papers/1503/1503.05944v1.pdf>

Take Action Against 5G NOW. <http://eon3emfblog.net/>

Welcome to the Beam Patch





Man's enduring fascination with beamed energy.

The millimetre wavelengths of 5G, such as the 28-39GHz phone allocation, "bounce off" buildings and other obstructions. Coupled with a predicted upsurge in the volume and diversity of signals, this necessitates a denser network with far more points of transmission. Readiness for 5G is one reason for the current proliferation of towers. The above bandwidth also coincides with radar, and thus shares its beam-like properties. Present telecommunication uses are primarily backhaul between base transceiver stations, and satellite links. In addition to pin-point connection to individual devices, virtually any object can be locked onto, observed, and targeted via adaptive feedback. Adaptive Millimeter Wave Beam Alignment for Dual-Polarized MIMO Systems. <http://arxiv.org/pdf/1408.2098v3.pdf>

This is the ultimate surveillance and soft kill technology. Multiple beams are capable of constructive interference at distance. The result is a precisely delivered "explosion" of microwave energy. Radar as Death Ray. <https://darkmattersalot.com/2015/01/25/radar-as-death-ray/>



Multiple beam, adaptive feedback targeting was pioneered by weaponry such as the BAE Stingray torpedo.

Microwave Towers

Phone, National Broadband, Emergency Networks, Radio, TV

Increased Incidence of Cancer Near a Cell-Phone Transmitter Station. https://www.novapublishers.com/catalog/product_info.php?products_id=1881

Sleep Disturbances in the Vicinity of the Short-Wave Broadcast Transmitter Schwarzenburg. http://avaate.org/IMG/pdf/som_11_05.pdf

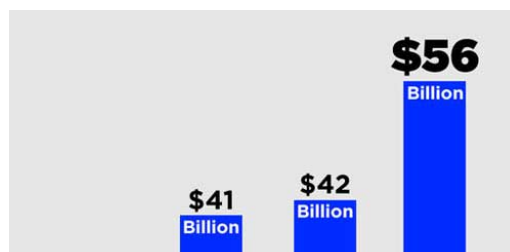
The High Court of South Africa recently ruled against a mobile phone tower at Strawberry Lane. Here is their story. <https://vimeo.com/170470262>, <http://www.emrsa.co.za/how-is-the-public-participation-process-failing/>

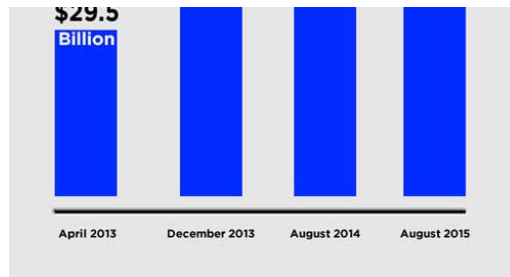
Want to know the location of any towers near you, or locate geographical areas that may be less electropolluted? Conduct a search at the ACMA website. http://web.acma.gov.au/pls/radcom/site_proximity.nearby_sites?pMODE=DD&pLAT=-42.812265&pLONG=147.245496. An alternative resource. <http://onwireless.com.au/find-mobile-phone-towers-using-acma.html>

NBN Wireless Woes



Our current PM, Malcolm Turnbull, was the former Communications Minister behind NBN's choice of wireless internet as a cheaper alternative to fibre optic cable. Nonetheless, costs have escalated to astounding levels for a technology predicted to be out-of-date before it is even completed.





Stop the Waste

The group "Towerless NBN for Maleny and Hinterlands" recently prevailed upon Sunshine Coast Council in QLD to decline a Development Application (DA) by NBN for a microwave internet tower at Beerwah. The grounds for refusal were:

1. The proposed development conflicts with the Strategic Framework of the Sunshine Coast Planning Scheme 2014.
2. The proposed development conflicts with the Purpose and Overall Outcomes and the Performance Outcomes of the Telecommunications facility code.
3. The proposed development conflicts with the Purpose and Overall Outcomes and the Performance Outcomes of the Scenic amenity overlay code.
4. There are insufficient grounds in the public interest to justify a decision despite the conflict with regard to the particular site.

According to the above group, similar towers were rejected at Hunchly, Eudlo and Glasshouse. NBN has been advised by Council that DA's for Palm Street and Burgress Avenue would also not be approved. Semeingly oblivious to the implications of this, Kylie Lindsay, Corporate Affairs Manager, commented, "NBN consults extensively with the local community and Councils to achieve the best outcomes".

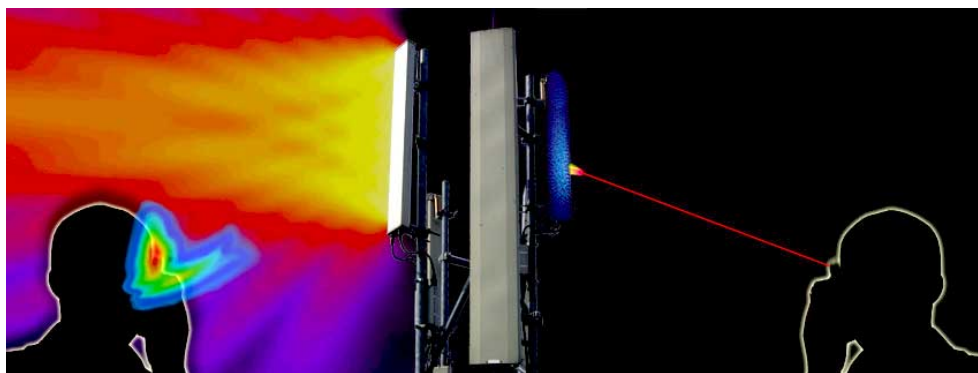
A contact in Perth Hills advises that twenty NBN towers are planned for the area. <http://www.watoday.com.au/wa-news/perth-hills-council-in-battle-with-nbn-over-tower-site-near-pickering-brook-houses-and-school-20160623-gpql2x.html>. NBN Tower Invasion. <http://echonewspaper.com.au/nbn-tower-invasion/>

Perth Hills Tower Action Group. <https://www.facebook.com/PerthHillsTowerActionGroup/?fref=nf>

This is happening all over Australia, as well as globally. Yet it appears DA's lodged by NBN are routinely over-confident, and thus vulnerable to challenge. Readers interested in the Maleny group's successful opposition strategies may contact zrowaste@sctelco.net.au.

A list, by location, of towers proposed by NBN. Three Year Construction Plan. <http://www.nbnco.com.au/learn-about-the-nbn/three-year-construction-plan.html>

5G Internet Towers and Microcells



Comparison of 4G and 5G patterns of transmission. Looks like an improvement, until you realise that at any given time thousands of the latter will indiscriminately saturate populated areas.

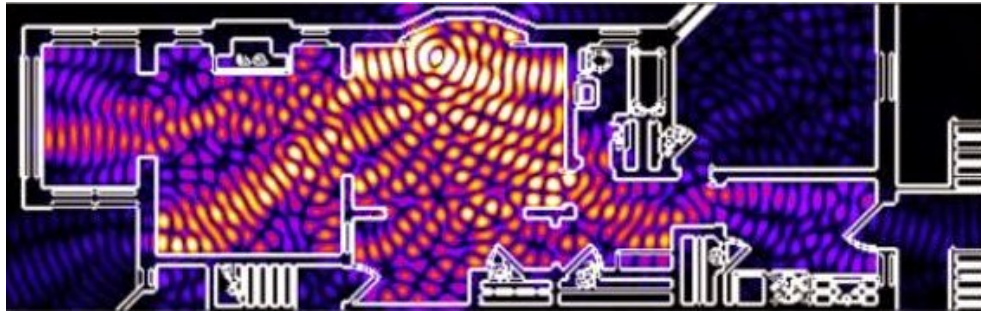
In addition to phones, another proposed application for 5G millimetre waves is point-to-point wireless internet. Wireless Hope for Locations Outside of NBN Reach. <http://www.theaustralian.com.au/life/personal-technology/wireless-hope-for-locations-outside-nbn-reach/news-story/bbc1d097242e19f0ba8e682380df9ef1>

How will industry provide the progressively higher signal densities required for 5G? Answer: turn every personal device into a mini cell tower. "Become a global mobile phone operator and get paid!" mCell 5G. <https://www.linkedin.com/pulse/introduction-project-mcell-5g-bobby-white>.

MicroCell 5GHZ People Global Mobile Network Project. <https://caryswgn.wordpress.com/2015/12/24/world-media-and-technology-corporation-introduced-to-the-world-their-microcell-5g-hz-people-global-mobile-network-project/>

Wi-Fi, Bluetooth

Home, Business, Hotspots



Field intensity pattern of 2.4GHz microwaves emitted by a single home Wi-Fi modem.

BBC Panorama - Wi-Fi - A Warning Signal.

<https://www.youtube.com/watch?v=yQGo0hesqIg>

This new finding by Prof. Olle Johansson is a prime example of why it is vital to continue supporting non-industry-funded researchers. Exacerbation of Demyelinating Syndrome After Exposure to Wireless Modem with Public Hotspot. <http://www.ncbi.nlm.nih.gov/pubmed/27355805>

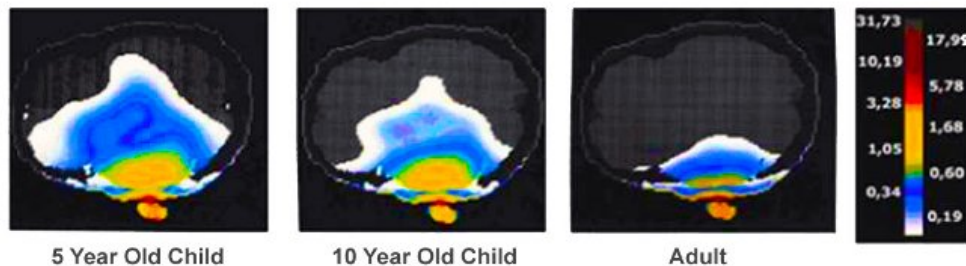
"The Downtown Alliance works to make Lower Manhattan a wonderful place to live, work and play ..." Downtown Alliance Expands Public Wi-Fi to Cover Entirety of Lower Broadway Corridor. <http://www.downtownny.com/press-releases/downtown-alliance-expands-public-wi-fi-to-cover-entirety-of-lower-broadway-corridor-%E2%80%93>

Bluetooth Field Intensities

Class	Power (mW)	Power (dbM)	Distance (m)	Sample Devices
1	100	20	~100	BT Access Point, dongles
2	2.5	4	~10	Keyboards, mice
3	1	0	~1	Mobile phone headset

Depending upon the type of application, there are three "classes" of Bluetooth power output. Class 1 is the strongest, at about 1/20 of the maximum allowed for mobile phones.

Children and Schools



Due to lower bone density, children typically absorb proportionately more phone radiation.

New advisory by French agency ANSES.

Exposure of Children to Radiofrequencies: A Call for Moderate and Supervised Use of Wireless Technologies. <https://www.anses.fr/en/content/exposure-children-radiofrequencies-call-moderate-and-supervised-use-wireless-technologies>

Dr. Hugh Taylor, Chairman of Yale School of

Medicine. Are Cell Phones Hurting Your Kids?
Fox 5 News Reports on the Pediatric Academic
Societies Conference. [https://
www.youtube.com/watch?v=K9BQ7QhUfAY](https://www.youtube.com/watch?v=K9BQ7QhUfAY)

Advice of The Cyprus National Committee on
Environment and Children's Health. [https://
www.youtube.com/watch?v=H43IKNjTvRM](https://www.youtube.com/watch?v=H43IKNjTvRM)

New Research Links Cell Phones to Health Issue
for Infants and Children. [http://
baltimore.cbslocal.com/2016/05/03/new-
research-links-cell-phones-to-health-issues-for-
infants-and-children/](http://baltimore.cbslocal.com/2016/05/03/new-research-links-cell-phones-to-health-issues-for-infants-and-children/)

10 Reasons Why Handheld Devices Should be
Banned for Children Under the Age of 12.
[http://www.huffingtonpost.com/cris-rowan/10-
reasons-why-handheld-devices-should-be-
banned_b_4899218.html](http://www.huffingtonpost.com/cris-rowan/10-reasons-why-handheld-devices-should-be-banned_b_4899218.html)

New Concerns Over Kids and Electronics. [http://
www.thehammontonnews.com/story/news/
health/2015/12/03/new-concerns-over-kids-
and-electronics/76760584/](http://www.thehammontonnews.com/story/news/health/2015/12/03/new-concerns-over-kids-and-electronics/76760584/)

Digitally Impaired Learning

Why Our Children Aren't Making Memories.
[http://www.kidspot.com.au/parenting/real-life/
in-the-news/why-our-children-arent-making-
memories](http://www.kidspot.com.au/parenting/real-life/in-the-news/why-our-children-arent-making-memories)

What Would My Avatar Do? Video Games and

Risky Decision Making. <http://lib.dr.iastate.edu/cgi/viewcontent.cgi?article=3602&context=etd>

Everyday virtual reality is the latest ploy to engage and manipulate consumers. This app superimposes Pokeman characters upon the immediate environment as viewed by smart phone. Should You Let Your Kids Play Pokemon Go? <http://www.marketwatch.com/story/do-your-kids-play-pokemon-go-what-to-watch-out-for-2016-07-11>

Behind the News Survey Finds 56pc of Children Engage in Excessive Screen Time. <http://www.abc.net.au/news/2016-04-26/survey-finds-56pc-of-children-engage-in-excessive-screen-time/7356504>

Sreenagers Movie. <http://www.screenagersmovie.com/>

Why Digital Education Could Be a Double Edged Sword. <http://www.pbs.org/newshour/bb/why-digital-education-could-be-a-double-edged-sword/>

Swiss Schools All Have Hard-wired Internet for Free. <https://www.youtube.com/watch?v=6HC8DavHvLI>

Map of Wi-Fi Free Schools in Australia. <https://www.google.com/maps/d/viewer?mid=zOkxcDhxrUz8.k-IiistVXZiU>

Smart Grid

Electricity, Water and Gas Meters, AMI, HAN

Contrary to industry pretense of "consumer-driven" roll-outs in States other than Victoria, here we see an incremental erosion of personal choice. Make your submission by 7 August 2016. Standards Australia/ENA Plan to Mandate Smart Meters Nationally. <http://www.emfacts.com/2016/07/standards-australiaena-plan-to-mandate-smart-meters-nationally/>

Most smart meters transmit at the same frequency recently linked to cancer in the NTP study (900MHz). Amid Health, Privacy Fears, States Are Letting People Reject "Smart Meters". http://www.pewtrusts.org/en/research-and-analysis/blogs/stateline/2016/02/05/amid-health-privacy-fears-states-are-letting-people-reject-smart-meters?link_id=27&can_id=664231854226259c87104e823a0dc1cb&source=email-may-2016-stop-smart-meters-bulletin-ca-landline-alert&email_referrer=may-2016-stop-smart-meters-bulletin-ca-landline-alert&email_subject=may-2016-stop-smart-meters-bulletin-ca-landline-alert

Money Talks: From "Smart" Meters to Power Politics (Video). <https://takebackyourpower.net/>

[money-talks-from-smart-meters-to-power-politics-video/](#)

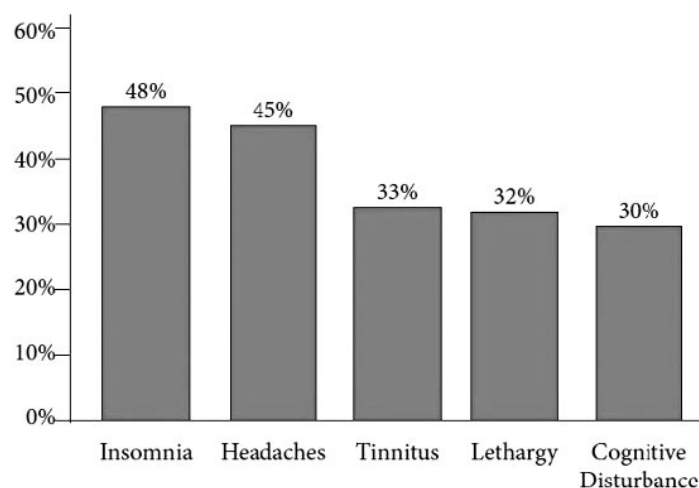
Increased Knowledge of "Smart" Meters Leads to Unfavorable Views, According to Study.

<https://smartgridawareness.org/2016/04/10/increased-knowledge-of-smart-meters-leads-to-unfavorable-views/?>

[link_id=42&can_id=664231854226259c87104e823a0dc1cb&source=email-may-2016-stop-smart-meters-bulletin-ca-landline-alert&email_referrer=may-2016-stop-smart-meters-bulletin-ca-landline-alert&email_subject=may-2016-stop-smart-meters-bulletin-ca-landline-alert](https://smartgridawareness.org/2016/04/10/increased-knowledge-of-smart-meters-leads-to-unfavorable-views/?link_id=42&can_id=664231854226259c87104e823a0dc1cb&source=email-may-2016-stop-smart-meters-bulletin-ca-landline-alert&email_referrer=may-2016-stop-smart-meters-bulletin-ca-landline-alert&email_subject=may-2016-stop-smart-meters-bulletin-ca-landline-alert)

Questions You May Want to Ask Your Electric Power Company About Smart Meters. <https://www.scribd.com/doc/289690072/Questions-You-May-Want-to-Ask-Your-Electric-Power-Company-about-Wireless-Smart-Meters>

Five Most Common Symptoms Observed in Smart Meter Case Study



Credit: Figure 2 of "Self-Reporting of Symptom Development from Exposure to Radiofrequency Fields of Wireless Smart Meters in Victoria, Australia: A Case Series." *Altern Ther Health Med.* 2014; 20(6): page 31.

Maine Voices: Your Smart Meter Isn't Necessarily Safe or Healthy. <http://www.pressherald.com/2016/03/28/maine-voices-your-smart-meter-isnt-necessarily-safe-or-healthy/>

Smart Meter Dangers: Who Knew and Did Not Blow the Whistle. <http://blog.heartland.org/2016/04/smart-meter-dangers-who-knew-and-did-not-sound-the-alarm/>

AEP Must prove Smart Meters Save Customers Money Before Charging to Opt Out. <http://www.dispatch.com/content/stories/business/2016/04/27/aep-must-prove-smart-meters-save-customers-money-before-charging-to-opt-out.html>

Alphabets' Next Big Thing - Building a Smart City. <http://www.wsj.com/articles/alphabets-next-big-thing-building-a-smart-city-1461688156>

Smart Meters Japan - TEPCO to Deploy 27M by 2020 Olympic Games. <http://www.metering.com/smart-meters-japan-tepco-to-deploy-27m-by-2020-olympic-games/>

Smart Meters Not Even Needed, Say EU Industry Insiders. http://stopsmartmeters.org/2016/07/09/smart-meters-not-even-needed-say-eu-industry-insiders/?link_id=19&can_id=664231854226259c87104e

823a0dc1cb&source=email-july-2016-stop-smart-meters-bulletin&email_referrer=july-2016-stop-smart-meters-bulletin&email_subject=july-2016-stop-smart-meters-bulletin

Insurers are backing off. Smart Meter Fires and Explosions. <http://emfsafetynetwork.org/smart-meters/smart-meter-fires-and-explosions/>

Wearable Tech

Biometrics, Implants, Artificial Intelligence



Early adopters of servitude to phones.

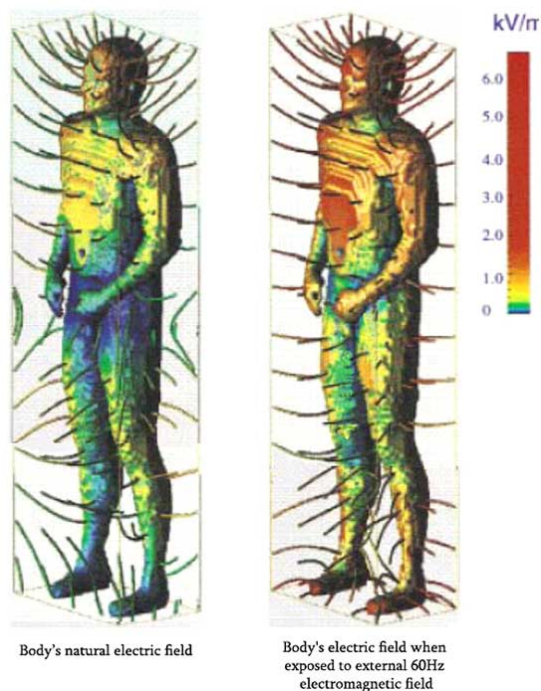
Could You Charge an iPhone with the Electricity in Your Brain? <http://gizmodo.com/could-you-charge-an-iphone-with-the-electricity-in-your-1722569935>

Vodafone Charge Up for Festivals with Sleeping Bag And Pocket Power. <http://www.worldtvpc.com/blog/vodafone-charge-up-for-festivals-with-sleeping-bag-and-pocket-power/>

The Hi-tech Tattoo That Could Replace ALL Your Passwords: Motorola Reveals Plans for Ink and Even Pills to Identify Us. <http://www.dailymail.co.uk/sciencetech/article-2333203/Moto-X-Motorola-reveals-plans-ink-pills-replace-ALL-passwords.html>

Mains Radiation, ELF

Powerlines, Wiring, Appliances



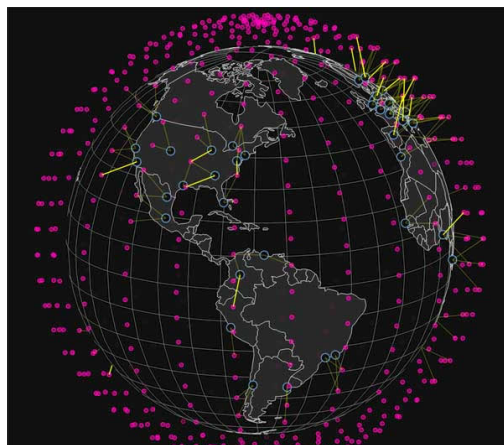
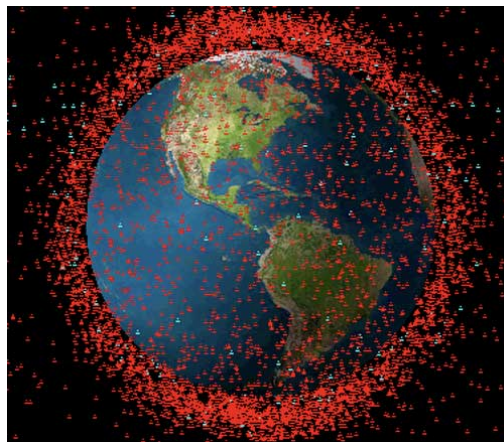
Distortion of body's natural electric field by 50/60Hz mains radiation.

Power-Frequency EMFs Promote Cancer in Massive Animal Study. Italians Call for a "Reevaluation of the Safety of Non-Ionizing Radiation". <http://microwavenews.com/news-center/ramazzini-animal-study>

Loss of Interstitial Cells of Cajal After Pulsating Electromagnetic Field (PEMF) in Gastrointestinal Tract of Rats. http://www.jpp.krakow.pl/journal/archive/09_05/pdf/421_09_05_article.pdf

Transport, Aerospace

Motor Vehicles, Aircraft, Satellites



NASA currently tracks over 500,000 pieces of "space junk". Ground-based lasers are proposed to clear room for new constellations of internet satellites, such as the 4,000 planned by Space X (right image). Mad Plan to Clean Up Space Junk with a Laser Canon. <http://www.wired.com/2015/05/laser-cannon-space-debris>

Spacex Files with FCC to Begin Testing Satellite Internet Service. <http://nextbigfuture.com/2015/06/spacex-files-with-fcc-to-begin-testing.html>

The US Navy's Communications System is Stuck in a Kafkaesque Tale of Italian Justice. <http://qz.com/662844/how-the-us-navys-most-advanced-communications-system-got-stuck-in-a-kafkaesque-circle-of-italian-justice/>

Qantas to Introduce Free High-Speed Wi-Fi Under ViaSat Deal. <http://www.smh.com.au/business/aviation/qantas-to-introduce-free-highspeed-wifi-under-viasat-deal-20160222-gn0vrx.html>

Environment, Wildlife

What We Know, Can Infer, and Don't Yet Know about Impacts from Thermal and Non-thermal Non-ionizing Radiation to Birds and Other Wildlife. <http://www.emraware.com/>

[documents/impacts_emr_wildlife.pdf](#)

National Resources Defence Council's page on Ocean Noise, objects to high intensity underwater signals, such as military sonar, proven responsible for mass whale beachings.

<https://www.nrdc.org/issues/ocean-noise>

Court Rules Navy War Games Violate Law Protecting Whales and Dolphins. <https://www.nrdc.org/media/2015/150331-0>

Online petition to expand the Northwestern Hawaii Marine Protection Zone. Expand Papahānaumokuākea. <http://expandpnm.com/>



A petition to protect the endangered Black Cockatoo's at Carnaby WA from construction of an NBN tower. https://www.change.org/p/chittering-shire-no-nbn-tower-on-the-carnaby-cockatoos-roosting-site-bell-hill-bindoon-w-a?recruiter=39973947&utm_campaign=signature_receipt_fb_dialog&utm_medium=facebook&utm_source=share_petition

Corporations are deemed to be "persons" with legal rights. So why not the natural environment? In New Zealand, Lands and Rivers Can Be People (Legally Speaking). http://www.nytimes.com/2016/07/14/world/what-in-the-world/in-new-zealand-lands-and-rivers-can-be-people-legally-speaking.html?module=WatchingPortal®ion=c-column-middle-span-region&pgType=Homepage&action=click&mediaId=wide&state=standard&contentPlacement=5&version=internal&contentCollection=www.nytimes.com&contentId=http%3A%2F%2Fwww.nytimes.com%2F2016%2F07%2F14%2Fworld%2Fwhat-in-the-world%2Fin-new-zealand-lands-and-rivers-can-be-people-legally-speaking.html&eventName=Watching-article-click&_r=1

Security

Body Scanners, Surveillance, Non-lethal Weapons

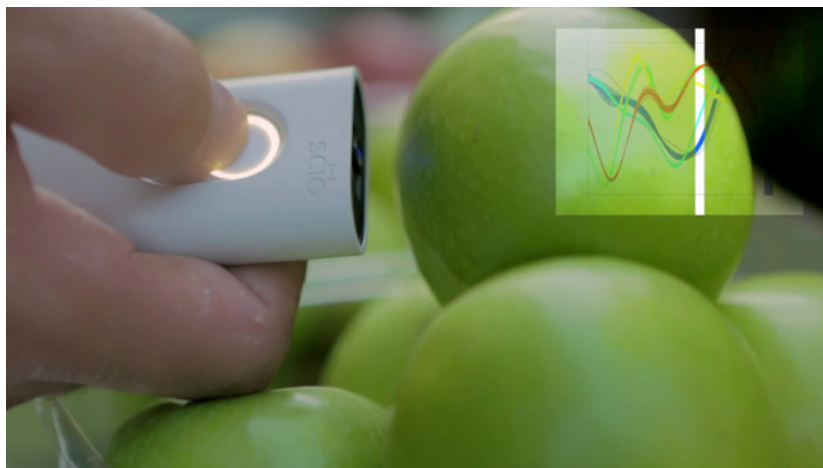
How Strangers Can Hack the Phone in Your Pocket. <http://www.cbsnews.com/news/60-minutes-overtime-how-strangers-can-hack-the-phone-in-your-pocket/>

Law Will Require Drivers Involved in an Accident to Hand Over Phone to Officers for Analysis of Texting-While-Driving. <http://>

www.electronicproducts.com/Mobile/Devices/Law_will_require_drivers_involved_in_an_accident_to_hand_over_phone_to_officers_for_analysis_of_texting_while_driving.aspx

Anti-Choice Groups Use Smartphone Surveillance to Target "Abortion-Minded Women" During Clinic Visits. <http://www.emfacts.com/2016/06/anti-choice-groups-use-smartphone-surveillance-to-target-abortion-minded-women-during-clinic-visits/>

An overview of radiation-emitting body scanners. Airport Scanners in 2014 - Fear and the End of Privacy. <http://www.wakingtimes.com/2013/02/14/airport-scanners-in-2014-fear-and-the-end-of-privacy/>



Get Ready for a Fully Scannable World. <https://www.good.is/articles/scio-molecular-scanner-consumer-physics>, https://www.youtube.com/watch?v=ajP_Lh6jEZg

Is anonymous web surfing set to become a

crime? Supreme Court: FBI Can Treat Anyone Surfing Net Anonymously as a Criminal. <http://undergroundreporter.org/fbi-surf-net-anonymously-criminal/>

The US Supreme Court Just Gave FBI the Power to Hack Innocent People. http://gizmodo.com/the-supreme-court-just-gave-fbi-the-power-to-hack-innoc-1773753539?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+gizmodo%2Ffull+%28Gizmodo%29

Electrosensitivity (EHS)

Electromagnetic Biological Response



The cover story in the 21-22 May 2016 Sydney Morning Herald Traveller, entitled "No Calls of the Wild", recommended 19 destinations still free of wireless technology. Included were Mongolia, the Yukon, Patagonia, and an

assortment of obscure island, polar, and wilderness areas.

A growing trend. List of hotels worldwide without Wi-Fi. <http://hotels-ohne-wlan.com/en/>

Register yourself on the EHS map. <https://www.diseasemaps.org/en/electromagnetic-hypersensitivity/>

This report includes the adverse effects of electromagnetic fields. History of Chemical Sensitivity and Diagnosis. [http://www.degruyter.com/dg/viewarticle.fullcontentlink:pdfeventlink/\\$002fj\\$002freveh.ahead-of-print\\$002freveh-2015-0021\\$002freveh-2015-0021.pdf/reveh-2015-0021.pdf?t:ac=j\\$002freveh.ahead-of-print\\$002freveh-2015-0021\\$002freveh-2015-0021.xml](http://www.degruyter.com/dg/viewarticle.fullcontentlink:pdfeventlink/$002fj$002freveh.ahead-of-print$002freveh-2015-0021$002freveh-2015-0021.pdf/reveh-2015-0021.pdf?t:ac=j$002freveh.ahead-of-print$002freveh-2015-0021$002freveh-2015-0021.xml)

Report of the Canadian Standing Committee on Health (17 June 2015). <http://www.citizensforsafetechnology.org/HESA-Report-of-the-Standing-Committee-on-Health-June-17-2015,49,4240>

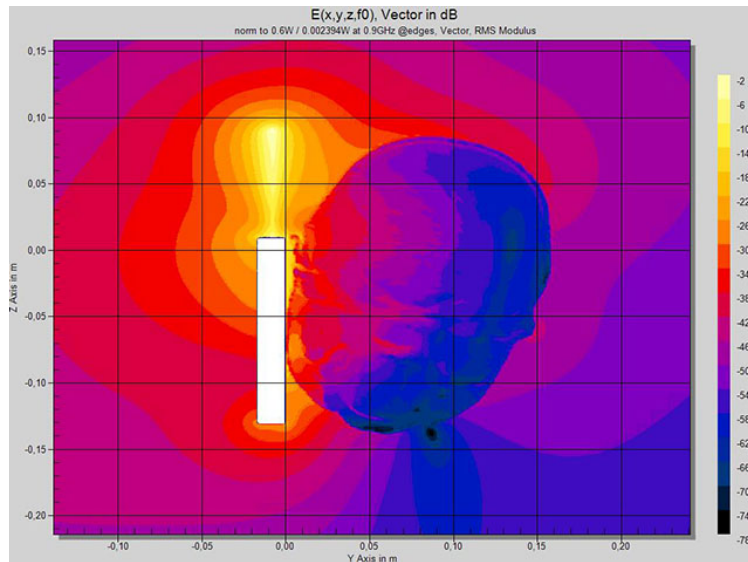
â€œDifferent groups in a population may have differences in their ability to tolerate a particular NIR (non-ionizing radiation) exposure. For example, children, the elderly, and some

chronically ill people might have a lower tolerance for one or more forms of NIR exposure than the rest of the population. Under such circumstances, it may be useful or necessary to develop separate guideline levels for different groups within the general population, but it may be more effective to adjust the guidelines for the general population to include such groups. - ICNIRP Statement, General Approach to Protection Against Non-ionizing Radiation, (HEALTH PHYSICS 82(4): 540-548; 2002)

Note: EMR Aware does not support the term "Electro-hypersensitivity" (EHS). It incorrectly implies that the biological effects of EMR are confined to an abnormal segment of the population. This has prejudicial consequences. By definition, the concept of EHS personalises any attributed disorder instead of treating it as the result of environmental toxicity. Sufferers may thus be conveniently denied a reasonable expectation of health. Additional to this, legal remedies such as "private nuisance" become untenable if the Claimant is deemed to be unusually sensitive.

Have a 1 million dollars to spare? Spy Town for Sale in National Radio Quiet Zone. <http://www.interferencetechnology.com/spy-town->

Biological Mechanisms



Mobile phone radiation enveloping a user's head.

“If this radiation can interact with biological tissue then it's going to reopen a lot of what were supposedly settled issues regarding the safety of wireless communications. If we're going to be bathed in a whole new electromagnetic environment, how safe is it?”
- Jerry Phillips, former Motorola scientist. How Might Cell Phone Signals Cause Cancer? <http://www.scientificamerican.com/article/how-might-cell-phone-signals-cause-cancer1/>

The Influence of Microwave Radiation on the State of Chromatin in Human Cells. <https://arxiv.org/ftp/arxiv/papers/0809/0809.0559.pdf>

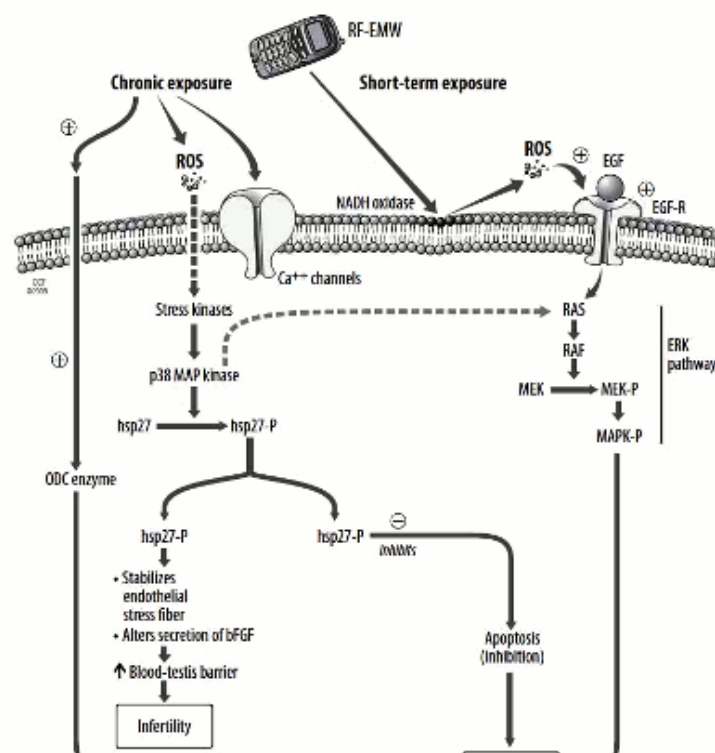
A Model of the Interaction of T Lymphocytes with Electromagnetic Waves. <https://hal.archives-ouvertes.fr/hal-00975963/>

A Quantum Theory of the Biological Effects of Radio-frequencies and Its Application to Cancer. <https://hal.archives-ouvertes.fr/hal-00877298v1/document>

Investigative Journalists Asked to Unplug Pulsed Radiation. <http://www.odwyerpr.com/story/public/7076/2016-06-14/investigative-journalists-asked-unplug-pulsed-radiation.html>

One way to keep the public in the dark is to charge nearly \$200 to read a report.

Bioelectromagnetic: Current Concepts - The Mechanisms of the Biological Effect of Extremely High Power Pulses. <http://www.springer.com/us/book/9781402042768>





*Pathways of possible cellular damage from
RF (Desai et al 2009)*

A Survey on the Impact of Radiofrequency
Electromagnetic Fields (RF-EMF) from Wireless
Devices on Information Technology (IT)
Professionals. [http://
pelagiaresearchlibrary.com/european-journal-
of-experimental-biology/vol6-iss4/
EJEB-2016-6-4-46-51.pdf](http://pelagiaresearchlibrary.com/european-journal-of-experimental-biology/vol6-iss4/EJEB-2016-6-4-46-51.pdf)

Professor Olle Johansson speaking at the Covert
Harassment Conference in Berlin, October 2015.
Adverse Health Effects of Modern
Electromagnetic Fields From Wireless
Telecommunication, Such as Mobile Phones and
Wi-Fi. [https://
covertharassmentconference.com/speaker?
Olle_Johansson](https://covertharassmentconference.com/speaker/Olle_Johansson)

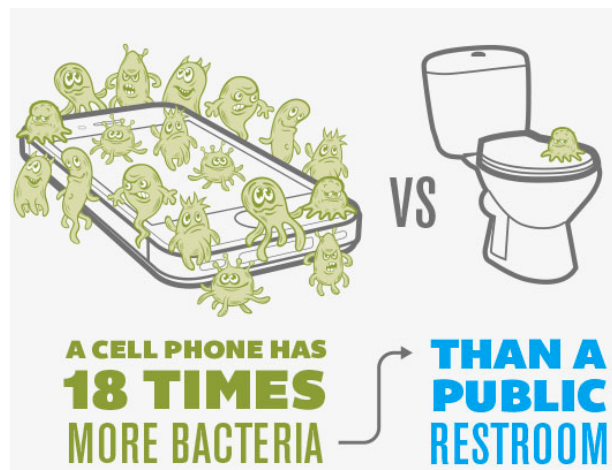
List of "famous" people who died of brain
cancer, many from Glioblastoma, now
increasingly associated with mobile phone use.
[http://www.odwyerpr.com/site_images/Notable-
Persons.pdf](http://www.odwyerpr.com/site_images/Notable-Persons.pdf)

Suzanne Somers and Camilla Rees Discuss
Electromagnetic Fields and Health. [https://
vimeo.com/161782683](https://vimeo.com/161782683)

Could Myelin Damage From Radiofrequency
Electromagnetic Field Exposure Help Explain the

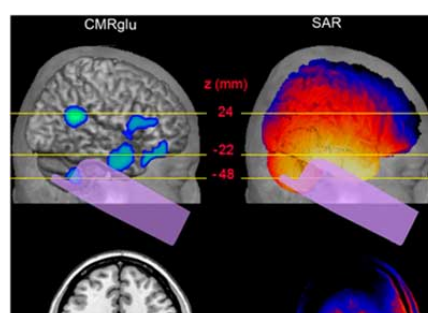
Functional Impairment Electrohypersensitivity?
A Review of the Evidence. [https://
www.researchgate.net/publication/
265515794_Could_Myelin_Damage_From_Radi
ofrequency_Electromagnetic_Field_Exposure_H
elp_Expain_the_Functional_Impairment_Electro
hypersensitivity_A_Review_of_the_Evidence](https://www.researchgate.net/publication/265515794_Could_Myelin_Damage_From_Radiofrequency_Electromagnetic_Field_Exposure_Help_Expain_the_Functional_Impairment_Electrohypersensitivity_A_Review_of_the_Evidence)

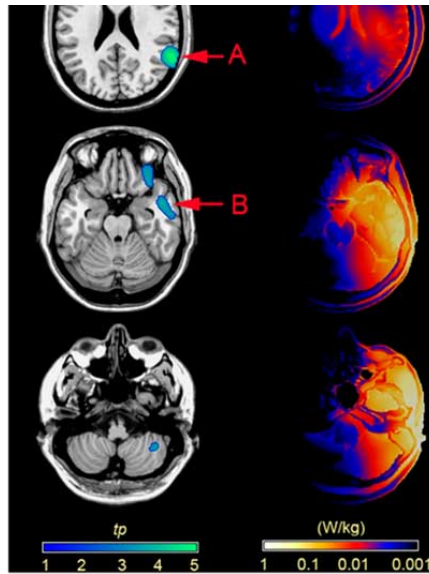
What Texting Does to Your Neck. [https://
www.youtube.com/watch?v=vyhry-RXuRU](https://www.youtube.com/watch?v=vyhry-RXuRU)



Modern Electronic Devices: An Increasingly
Common Cause of Skin Disorders in Consumers.
[http://www.ncbi.nlm.nih.gov/pubmed/
27172301](http://www.ncbi.nlm.nih.gov/pubmed/27172301)

Neurological Effects





GSM Mobile Phone Radiation Suppresses Brain Glucose Metabolism. <http://jcb.sagepub.com/content/31/12/2293.long>

Cyclotron Resonance in Human Body Cells. <http://www.haroldaspden.com/reports/10.pdf>

Cortical Processing During Smartphone Text Messaging. [http://www.epilepsybehavior.com/article/S1525-5050\(16\)00134-7/pdf](http://www.epilepsybehavior.com/article/S1525-5050(16)00134-7/pdf)

People Are Merging With Their Smart Phones. <https://www.youtube.com/watch?v=iTduyvT8zoM>

You Really Are Addicted to Your Cellphone. http://www.salon.com/2013/06/13/cellphones_health_risks_go_way_beyond_brain_cancer_partner/

Phone Sick at Camp. <http://well.blogs.nytimes.com/2016/06/07/phone-sick-at-camp/>

Is Technology Making Us Dumb? http://www.huffingtonpost.com.au/dr-jenny-brockis-/is-technology-making-us-d_1_b_9657618.html?utm_hp_ref=australia

Digital Dementia Is on the Rise. <http://koreajoongangdaily.joins.com/news/article/article.aspx?aid=2973527>

How Technology Hacks Human Minds. http://www.huffingtonpost.com/trist-harris/how-technology-hijacks-peoples-minds_b_10155754.html

Sky Deutschland to Broadcast Adverts Directly into Train Passengers' Heads. <http://www.telegraph.co.uk/finance/newsbysector/mediatechnologyandtelecoms/media/10158311/Sky-Deutschland-to-broadcast-adverts-directly-into-train-passengers-heads.html>

Safety Standards

Regulations, Bans and Warnings





Thanks to Govt. inaction, the public continues to remain blissfully ignorant of the effects of holding wireless devices in contact with the body.

EMF "Safety Standards" Not So Safe. <http://www.norad4u.com/monitor/emf-safety-standards>

Exposure and Testing Requirements for Mobile Phones Should Be Reassessed. <http://www.gao.gov/assets/600/592901.pdf>

Should Cellphones Have Warning Labels? http://www.saferemr.com/2016/05/should-cellphones-have-warning-labels_23.html

Investigative Journalists Asked to Unplug Pulsed Radiation. <http://www.odwyerpr.com/story/public/7076/2016-06-14/investigative-journalists-asked-unplug-pulsed-radiation.html>

In the Matter of Reassessment of Federal Communications Commission Radiofrequency Exposure Limits and Policies. <http://apps.fcc.gov/ecfs/document/view;jsessionid=8mGLSpCSLpr4M3KKnC0MxxLzbDLGLYfqTDJXnKGQ41TcmDv2nfxL!608620108!-739454830?id=7520958706>

Critical submissions to recent ICNIRP Workshop

in South Africa. https://groups.google.com/forum/#!topic/mobilfunk_newsletter/hxE-mDuyqvo

Canadian Legislation

A well-documented plea to the Canadian Government. No Safe Place. <https://ecfsapi.fcc.gov/file/10712158797276/NO-SAFE-PLACE-Letter-to-Gregor-Robertson-040716.pdf>

EHS is already recognized by The Canadian Human Rights Commission as a disability. “Given the seriousness of the adverse effects and the availability of alternative technologies, a precautionary approach is warranted.”

Proposed Canadian Bill would require mobile phone manufacturers to put warning labels on their products. Bill C-684. <http://www.c4st.org/PMB>

Industry Watch

Product Defence, Liability and Legal Action





It appears the telecommunications lobby, in league with complicit scientists, has forced ABC TV to delete from their website the Catalyst video entitled "Wi-Fried?". Coincidentally, the same ACMA that regulates the ABC collects millions from mobile phone operators in spectrum license fees. <http://www.brisbanetimes.com.au/federal-politics/political-news/abcs-catalyst-under-review-reporter-suspended-after-damning-review-on-wifi-program-20160705-gpz8ty.html>

An Historical Perspective on the Catalyst Wi-Fried Program Controversy. <http://www.emfacts.com/2016/07/a-historical-perspective-on-the-catalyst-wi-fried-program-controversy/>

ABC Show's Catalyst Presenter Dr. Maryanne Suspended After Review of "Wi-Fried?" Story on Wi-Fi. <http://www.news.com.au/entertainment/tv/abc-shows-catalyst-presenter-dr-maryanne-suspended-after-review-of-wifried-story-on-wifi/news-story/30a4fe3d27262fc9b67268c0209118dc>

Change.org petition. Stop Media Censorship by

ABC - Unfair Attack on Catalyst and Producer Dr. Maryanne Demasi. https://www.change.org/p/ms-michelle-guthrie-managing-director-abc-tv-stop-media-censorship-by-abc-unfair-attack-on-catalyst-and-producer-dr-maryanne-demasi?recruiter=317946191&utm_source=share_petition&utm_medium=facebook&utm_campaign=share_page&utm_term=des-lg-share_petition-custom_msg&recurrut_context=fb_share_mention_control&fb_ref=Default

Readers can also express their views by commenting directly to ABC. <http://www.abc.net.au/contact/contactabc.htm>.

A few examples of why industry may be worried about the truth getting out. Mobile Firms Face Lawsuits. <http://www.dailymail.co.uk/health/article-11519/Mobile-firms-face-lawsuits.html>. Glioblastoma Lawsuit Attorneys. <http://pribanic.com/glioblastoma-lawsuit-attorneys/>

Lloyd's of London Excludes Coverage for RF/EMR Claims. <http://www.citizensforsafetechnology.org/Lloyds-of-London-excludes-coverage-for-RFEMR-claims,2,4168>

Nokia Says Microsoft Must Handle Cell Phone Radiation Concerns. <https://www.rfsafe.com/nokia-says-microsoft-must-handle-cell-phone-radiation-concerns/>

Independent sources continue to warn that brain tumors are on the rise. Now 700,000 sufferers in the US. Brain Tumor Statistics. <http://www.abta.org/about-us/news/brain-tumor-statistics/>

"Tobacco Science"

Why is our largest mobile service provider suddenly interested in overseeing cancer statistics? Telstra takes Over Australia's New National Cancer Screening Register. <http://www.emfacts.com/2016/06/telstra-takes-over-australias-new-national-cancer-screening-register-ncsr/>

Science for Sale: US Senators Seek Better Conflict Disclosures for Scientific Articles. <http://www.emfacts.com/2016/04/science-for-sale-us-senators-seek-better-conflict-disclosures-for-scientific-articles/>

Are there parallels between the field of EMR health research and the following global trend? Ghostwriters in Medical Literature. <http://www.sciencemag.org/careers/2010/11/ghostwriters-medical-literature>

The Dangers of "Willful Blindness". https://www.ted.com/talks/margaret_heffernan_the_dangers_of_willful_blindness?language=en

Letter of the Law

In spite of mounting evidence of biological harm, EMR apologists cling to the notion that these findings do not necessarily constitute an actual health risk or impairment. For example, the WHO states:

"To date, no adverse health effects have been established as being caused by mobile phone use".

Are such claims defensible according to strict legal definition? The following excerpt is from "A Law Dictionary, Adapted to the Constitution and Laws of the United States", by John Bouvier

"HEALTH: Freedom from pain or sickness; the most perfect state of animal life. It may be defined as 'the natural agreement and concordant dispositions of the parts of the living body.'"

EMR Countermeasures

Personal Precautions and Monitoring

50+ EMF Safety Tips & Insights - Overview of Cell Phone & Wireless Technology Hazards.

<http://electromagnetichealth.org/electromagnetic-health-blog/50-tips/>





How to Install Wired Internet in Your Home.
<https://www.emfanalysis.com/how-to-install-wired-internet-in-your-home/>

While we cannot attest to its effectiveness, this curiously "New Age" remedy was reported successful in tests commissioned by the Swiss Government. Wide Scale Harmonization of Electromagnetic Fields (EMF). <http://www.biogeometry.ca/#!electrosmog-the-miracle-of-hemberg/cou0>

Know your opponent. Nation on the Take - How Big Money Corrupts Our Democracy and What We Can Do About It. <http://www.bloomsbury.com/us/nation-on-the-take-9781632861108/>

General Events & Networking

Update - Prof. Olle Johansson



Prof. Johansson would like to thank our readership for the "huge" number of emails sent to Karolinska Institute in protest of his forced early retirement. Additionally, he was invited by Living Now magazine to write an article on the health hazards of EMR. It includes a summary of his present situation, which we will continue to monitor as events unfold. You can read it in full here beginning on page 25. Are We Really Coping With the Increasing Amounts of Airbourne Radiation? <http://content.yudu.com/Library/A405am/LivingNowJuly195/resources/index.htm?referrerUrl=http://www.livingnow.com.au/read-online>, <http://vetapedia.se/olle-johansson-associate-professor-ki/>

Register for this free online event, from 25 July to 1 August 2016. Prof. Johansson will speak on "Wireless Technology - a Threat to Brain Function". Alzheimer's and Dementia Summit.

<http://alzheimersdementiasummit.com/>

The FCC's Technology Advisory Council is seeking public comment on the contribution of the smart grid to background levels of EMR within the community (deadline 11 August 2016). <http://www.electronicsilentspring.com/wp-content/uploads/2016/06/DA-16-676A1-1.pdf>

Having flooded our airspace with microwaves, Telcos are now pulling up the drawbridge by attempting to decommission the safer and more reliable copper wire network. A bill to do so, introduced by AT&T, was recently defeated in California due to public outcry. Join the Coalition to Save Landlines. <https://savelandlines.org/>. Now the FCC is stepping in to prop up the industry. http://transition.fcc.gov/Daily_Releases/Daily_Business/2016/db0714/DOC-340303A1.pdf. Here is what can happen when communities are forced to rely solely upon wireless. AT&T Outage Left Cell Phone-dependent Alaskans Unable to Call 911. <http://www.ktuu.com/content/news/ATT-outage-left-cell-phone-dependent-Alaskans-unable-to-call-911-385907001.html>

An extensive collection of EMR health literature on Scoop.it. Screen Time, Wireless and EMF Research. <http://www.scoop.it/t/emf-wireless-radiation>

Find a group near you. Global Smart Meter Resistance Database. http://stopsmartmeters.org/frequently-asked-questions/contacts-database/?link_id=40&can_id=664231854226259c87104e823a0dc1cb&source=email-july-2016-stop-smart-meters-bulletin&email_referrer=july-2016-stop-smart-meters-bulletin&email_subject=july-2016-stop-smart-meters-bulletin

Free DVD - Read the Science



This DVD was produced in response to readers who requested a resource dedicated entirely to peer-reviewed science. It contains over 1200 categorised articles and abstracts in PDF, which should be enough to challenge even the most hardcore skeptics. It is available free-of-charge, posted to any address within Australia. [Click here](#) for further information.

Notice:

If you are an employee or agent of a public or private corporation that deals with electrotechnology and/or policy related to same, please be advised that the EMR Aware Newsletter and linked documents are deemed to constitute duly served Legal Notice upon you personally 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 documents, and exercise in accord with the content of same the utmost due diligence and duty of care.



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