



EMR Aware

Electromagnetic Radiation - Concerns and Informed Choices

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Newsletter April-May 2017

This free newsletter is published by EMR Aware, a citizens' group based in Northern NSW Australia. It contains information on the health, environmental, and social impacts of modern electro-technologies. This is offered in the public interest to encourage a fair and balanced discussion of the topics at hand. Particular attention is paid to material that may not be made widely available by industry and their Government regulators.

We invite readers to consider the scientific evidence and trending opinion throughout this, and our prior, newsletters. 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 networks as possible.

Over time, web content may disappear or move. If you encounter a broken link, try a search using the article's title. Alternatively, you may access similar content via the hosting website's home page. Anyone wishing to be notified when new editions of our newsletter become available may do so by sending an [email](#) with the word "subscribe" in the subject line.

Mobile and Cordless Phones

Will Your New Cell Phone Give You Cancer?

<https://www.youtube.com/watch?v=c9gHSdWGazU>

Long-term Cell Phone Use Increases Brain Tumor Risk. <http://www.saferemr.com/2017/02/long-term-cell-phone-use->

[increases.html](#)

Association Between a Number of Cell Phone Contracts and Brain Tumor Incidence in the U.S. States. <https://link.springer.com/article/10.1007%2Fs11060-010-0280-z>

Mobile Phone Use and Risk for Intracranial Tumors and Salivary Gland Tumors - A Meta-analysis. <https://www.ncbi.nlm.nih.gov/pubmed/28220905>



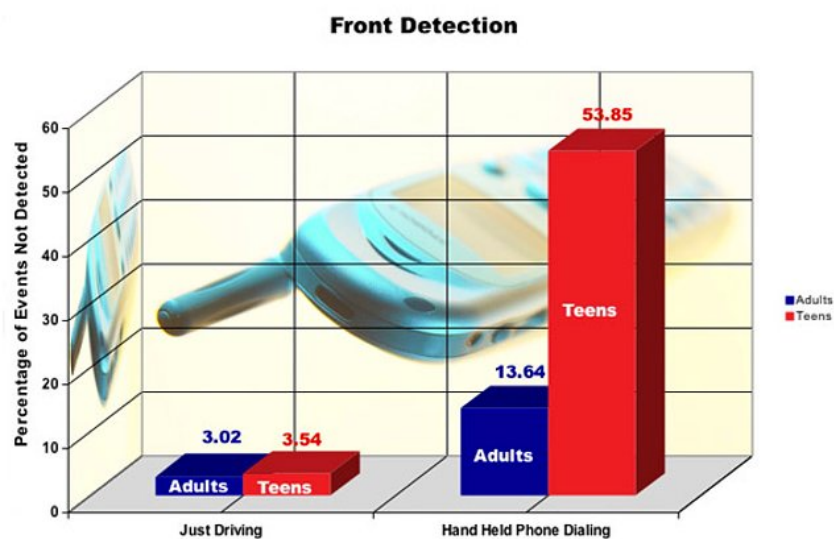
Scientist Harry Lai Makes Waves in the Cell Phone Industry. <https://www.paleoosteology.com/scientist-henry-lai-makes-waves-in-the-cell-phone-industry/>

NTP Paper on DNA Breaks Delayed. Will Be Included in Final RF Report. <http://microwavenews.com/news-center/ntp-dna-delay/>

Greenpeace fails to acknowledge health effects. From Smart to Senseless. The Global Impact of 10 years of Smartphones. <http://>

www.greenpeace.org/usa/wp-content/uploads/2017/03/FINAL-10YearsSmartphones-Report-Design-230217-Digital.pdf

Massive Govt. income from spectrum allocations. The Evolution to 3G Mobile - Status Report. <https://www.itu.int/itu-news/issue/2003/06/thirdgeneration.htm>



Teens are more susceptible to distraction by mobile phones use.

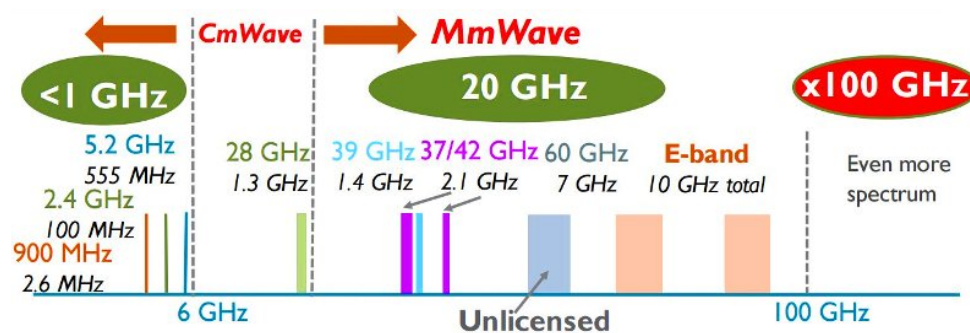
Medical Associations Warn Against Childrens' Excessive Use of Smart Phones. <http://mainichi.jp/english/articles/20170216/p2a/00m/0na/004000c>

"Get Off Your Phone!": Houston Daycare Blasts Parents in Scathing Note for Paying More Attention to Their Handsets Than Their Own Children. <http://www.dailymail.co.uk/news/article-4181750/Houston-daycare-tells-parents-drop-phones.html>

Testicular Cancer in Teenage Boys: Is Cell Phone Radiation a Risk Factor for Young Boys Who Wear their Cell Phone on a Belt or in a Front Pocket? <http://journals.plos.org/plosone/article/comment?id=10.1371/annotation/c691b199-d990-495b-8214-e60a1f17d9ba>

Huntsville Man Nearly Gets Electrocuted After Sleeping with Phone on Charger. http://www.waaytv.com/appnews/huntsville-man-nearly-gets-electrocuted-after-sleeping-with-phone-on/article_8b633406-1407-11e7-96a3-ff4781f81c7c.html

5G and Millimeter Waves



Technical hurdles could keep 5G below 6GHz until at least 2018. Straight to Millimetre Wave? Not So Fast. <http://www.rcrwireless.com/20160815/fundamentals/5g-sub-6ghz-tag31-tag99>

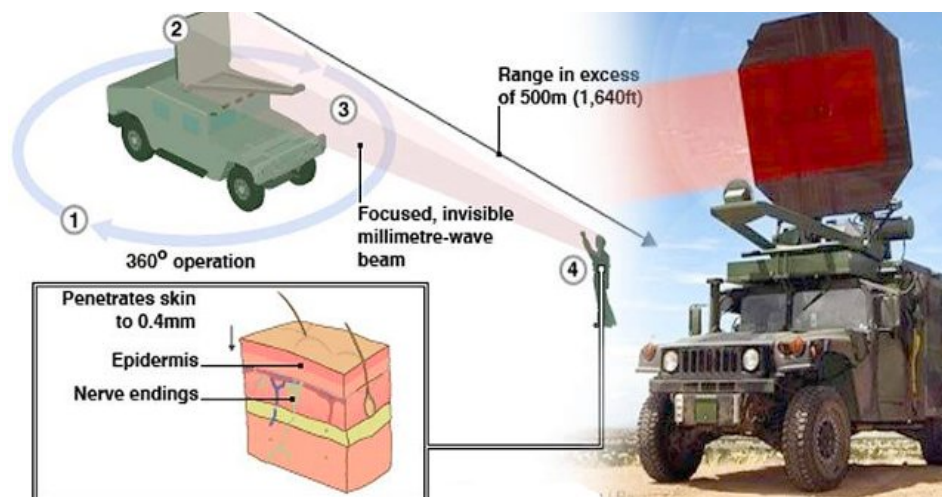
Article in "The Bulletin". A 5G Wireless Future. Will It Give Us a Smart Nation or Contribute to an Unhealthy One? <https://issuu.com/18621/>

[docs/bulletin_0217_web/20](https://docs.bulletin_0217_web/20)

5G Not Health-Safety-Tested BUT Still Being Rolled Out Everywhere. <http://www.naturalblaze.com/2017/03/5g-not-health-safety-tested-rolled-out-everywhere.html>

FCC: Intimidating Press, Suppressing Science at "5G" Announcement. <https://www.youtube.com/watch?v=OMxfffqyDtc>

Health Risks of 5G Technologies: Dr. Devra Davis. <https://www.youtube.com/watch?v=PwLJOxXGOww>



The Same Frequencies Used for Pain-Inflicting Crowd Control Weapons Form the Foundation of the Network that Will Tie Together More Than 50 Billion Devices as Part of the Internet of Things. <http://www.washingtonsblog.com/2017/03/internet-things-cause-cancer.html>

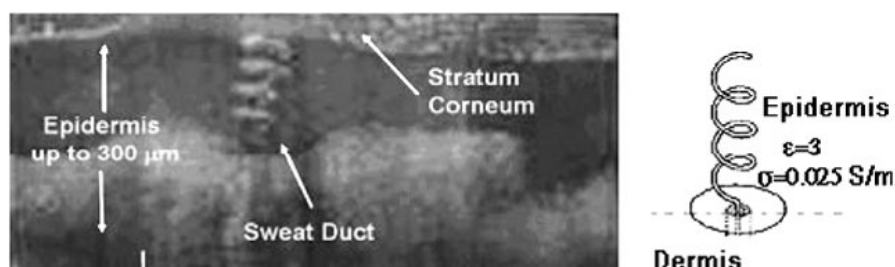
"Interacts with skin and eyes." The Internet of Things Poses Human Health Risks: Scientists

Question the Safety of Untested 5G Technology at International Conference. <http://www.sbwire.com/press-releases/the-internet-of-things-poses-human-health-risks-scientists-question-the-safety-of-untested-5g-technology-at-international-conference-779643.htm>

5G frequencies affect learning and memory. Relationship Between Millimeter Wave Irradiation in Pregnant Mice and c-Fos Protein Expression in Hippocampus and Learning and Memory Functions in Their Offsprings. <https://www.ncbi.nlm.nih.gov/pubmed/16405774>

Optus Launches Commercial 4.5G Service, Trials Pre-5G Technology. http://www.computerworld.com.au/article/614638/optus-launches-commercial-4-5g-service-trials-pre-5g-technology/?utm_campaign=computerworld-today-2017-02-23&utm_medium=newsletter&eid=-255&utm_source=computerworld-today

Potential Risks to Human Health from Future Sub-MM Communication Systems. https://www.youtube.com/watch?v=VuVtGldYXK4&feature=youtu.be&list=PLT6DbkXhTGoArWUNJc0tUcKW9Ue_sbCk1





Human Skin as Arrays of Helical Antennas in the Millimeter and Submillimeter Wave Range.

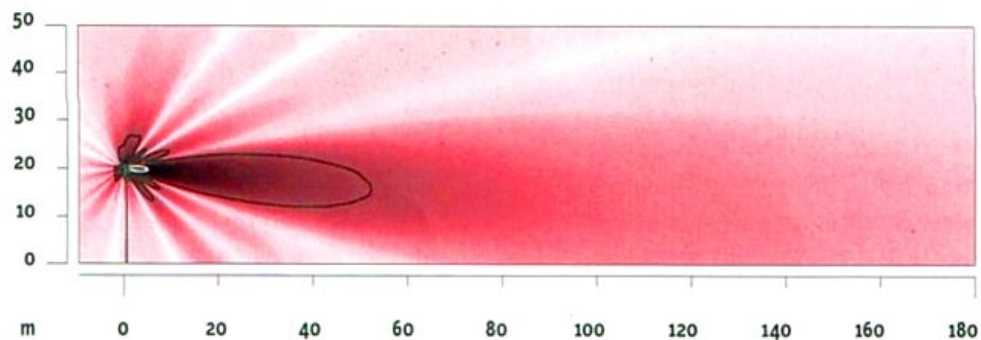
<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.100.128102>

Microwave Towers

Phone, National Broadband, Emergency Networks, Radio, TV

NBC: Hundreds Do Not Want Small Cell Towers Near Homes: Montgomery County. <https://www.youtube.com/watch?v=UABsTk17bEI>

Central Coast Council Blocks Monopole Build. <http://www.theadvocate.com.au/story/4543417/central-coast-council-blocks-telco-tower-build/?cs=87>



"The RF energy from your phone is higher than if you're standing directly underneath a tower." True, but misleading since the highest exposure levels occur hundreds of metres from the base

of a tower. Charlotte Country Schools Look to cell Towers for Money. <http://www.nbc-2.com/story/34534645/charlotte-county-schools-look-to-cell-towers-for-money>

Mobile Tower Radiation Harmful: Government Report. <http://www.thedailystar.net/health/mobile-tower-radiation-unsafe-govt-report-1379665>

Occupational Health Effects Linked to Terrestrial Trunked Radios (TETRA). <http://www.personneltoday.com/hr/occupational-health-effects-linked-terrestrial-trunked-radios-tetra/>

NBN Co Masters the Fixed-to-wireless Flip. Promised FTTN. Given Fixed Wireless. <https://www.itnews.com.au/news/nbn-co-masters-the-fixed-to-wireless-flip-452447>

Invasion of Small Cells



Want to avoid 5G millimetre wave exposure?

You will need to start looking for these.

Learn to identify sources of 5G irradiation.

Pictorial examples of small cell antennae.

eNodeB 4G/5G. <http://emrabc.ca/?>

[page_id=7536&cpage=1#comment-405429](http://emrabc.ca/?page_id=7536&cpage=1#comment-405429)

US Senate Bill S.19 exempts 5G small cell transmitters from environmental, health or safety review. Making Opportunities for

Broadband Investment and Limiting Excessive

and Needless Obstacles to Wireless. <https://>

www.congress.gov/115/bills/s19/

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Antenna Sickness Is Everywhere Now. <http://>

manhattanneighbors.org/antenna-sickness/

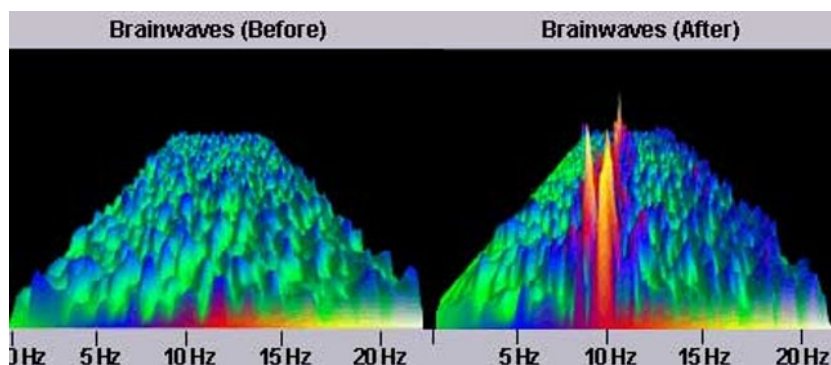
"PSA: S.19 5G and S. 88 IoT Hazardous to

Public Health. <https://www.youtube.com/watch?>

[v=r-0b2s1HfHQ&feature=youtu.be](https://www.youtube.com/watch?v=r-0b2s1HfHQ&feature=youtu.be)

Wi-Fi, Bluetooth

Home, Business, Hotspots



The 10Hz beacon signal emitted by Wi-Fi modems, even when no data is being transmitted, is a known sweet-spot for entrainment of human brain waves. The 10Hz Frequency: A Fulcrum for Transitional Brain States: <https://oatext.com/The-10-Hz-frequency-A-fulcrum-for-transitional-brain-states.php>

Frequency-specific Responses in the Human Brain Caused by Electromagnetic Fields. <https://www.ncbi.nlm.nih.gov/pubmed/8064317>

RF source Max Peak/Peak Hold	Daytime exposure	Nighttime exposure	Sensitive populations ¹⁾
Radio broadcast (FM)	10,000 $\mu\text{W}/\text{m}^2$	1000 $\mu\text{W}/\text{m}^2$	100 $\mu\text{W}/\text{m}^2$
TETRA	1000 $\mu\text{W}/\text{m}^2$	100 $\mu\text{W}/\text{m}^2$	10 $\mu\text{W}/\text{m}^2$
DVB-T	1000 $\mu\text{W}/\text{m}^2$	100 $\mu\text{W}/\text{m}^2$	10 $\mu\text{W}/\text{m}^2$
GSM (2G) 900/1800 MHz	100 $\mu\text{W}/\text{m}^2$	10 $\mu\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$
DECT (cordless phone)	100 $\mu\text{W}/\text{m}^2$	10 $\mu\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$
UMTS (3G)	100 $\mu\text{W}/\text{m}^2$	10 $\mu\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$
LTE (4G)	100 $\mu\text{W}/\text{m}^2$	10 $\mu\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$
GPRS (2.5G) with PTCCH (8.33 Hz pulsing)	10 $\mu\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$	0.1 $\mu\text{W}/\text{m}^2$
DAB+ (10.4 Hz pulsing)	10 $\mu\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$	0.1 $\mu\text{W}/\text{m}^2$
Wi-Fi 2.4/5.6 GHz (10 Hz pulsing)	10 $\mu\text{W}/\text{m}^2$	1 $\mu\text{W}/\text{m}^2$	0.1 $\mu\text{W}/\text{m}^2$

The European Academy of Environmental Medicine recommends more precaution for Wi-Fi than mobile phones.

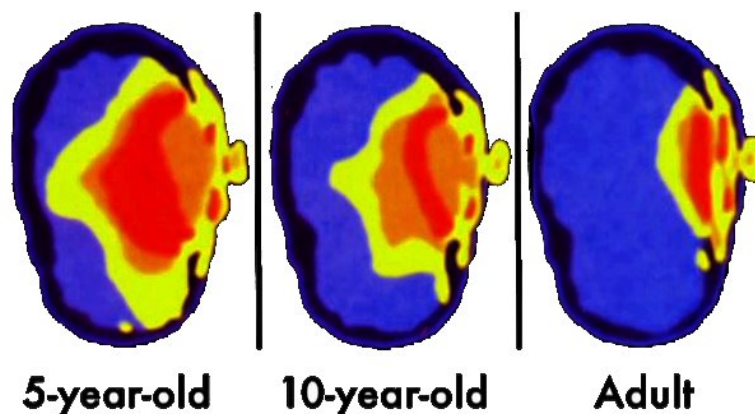
"Our investigations suggested that RF exposure induced a diabetes-like status through alteration of oxidative response." Effects of

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

Parent Testifies that Wireless Radiation Causes Heart Problems in Her Child. <https://www.youtube.com/watch?v=6Peg7aSrzM0>

Microwave sickness? Teachers Demand Answers as Arlington Schoolhouse Rocked by Illness. [http://www.wfaa.com/news/local/investigates/parents-teachers-demand-answers-as-arlington-schoolhouse-rocked-by-illnesses/395907519?](http://www.wfaa.com/news/local/investigates/parents-teachers-demand-answers-as-arlington-schoolhouse-rocked-by-illnesses/395907519?fb_action_ids=1338167949587119&fb_action_types=og.comments)

Children



Why Children Absorb More Microwave Radiation Than Adults: The Consequences. <http://www.sciencedirect.com/science/article/pii/S2213879X14000583>

The Kids Are Not Alright. How Wireless Tech Is Harming Our Youth and What Parents Can Do Right Now. https://alisonmain.files.wordpress.com/2017/01/2-17_pm_the-kids-are-not-alright.pdf

2017 Reykjavik Conference On Technology, Wireless Radiation And Children's Health. <https://ehtrust.org/science/key-scientific-lectures/2017-reykjavik-conference-technology-wireless-radiation-childrens-health/>

Russian National Committee on Non-ionising Radiation Protection. Children and Mobile Phones: The Health of Following Generations Is in Danger. http://www.radiationresearch.org/pdfs/rncnirp_children.pdf

Advice on Pregnancy: Advice of The Cyprus National Committee on Environment and Children's Health. https://www.youtube.com/watch?v=k_HVMnAXnLw&feature=em-subsub_digest

The Psycho-Social Effect of Screens on Children's Wellbeing: Dr. Gadi Lissak. https://www.youtube.com/watch?v=7_1Ik7ddjHA

The "always on" ethos encourages a culture of expectation and instant gratification. Turn It Off for Kid's Initiative Toolkit. <http://www.nacst.org/turn-it-off-4-kids-tool-kit.html>

Radiofrequency Exposure in the Neonatal

Medium Care Unit. [https://
www.ncbi.nlm.nih.gov/pubmed/?
term=27741450](https://www.ncbi.nlm.nih.gov/pubmed/?term=27741450)

What You Need to Know About Wireless
Radiation and Your Baby. [http://
3.bp.blogspot.com/-1INVrf7t6xI/WLTshh2mgDI/
AAAAAAAAABsU/
oGcLLFWbmJsGjv9LESGCMJiA0g5VRypLQCK4B/
s1600/Babysafe-Green-Gazette-773x1024.jpg](http://3.bp.blogspot.com/-1INVrf7t6xI/WLTshh2mgDI/AAAAAAAAABsU/oGcLLFWbmJsGjv9LESGCMJiA0g5VRypLQCK4B/s1600/Babysafe-Green-Gazette-773x1024.jpg)

The Baby Safe Project. [http://
www.babysafeproject.org/](http://www.babysafeproject.org/)

School Wi-Fi

Video presentations. HB 866: Maryland State
Bill To Develop Medical Safety Guidelines For
Digital Device Use In Schools. [http://
safetechforschoolsmaryland.blogspot.com.au/
2017/02/hb-866-maryland-state-bill-to-
develop.html?
utm_source=feedburner&utm_medium=email&
utm_campaign=Feed:
+SafeTechForSchoolsMaryland+
\(Safe+Tech+for+Schools+Maryland\)](http://safetechforschoolsmaryland.blogspot.com.au/2017/02/hb-866-maryland-state-bill-to-develop.html?utm_source=feedburner&utm_medium=email&utm_campaign=Feed:+SafeTechForSchoolsMaryland+(Safe+Tech+for+Schools+Maryland))

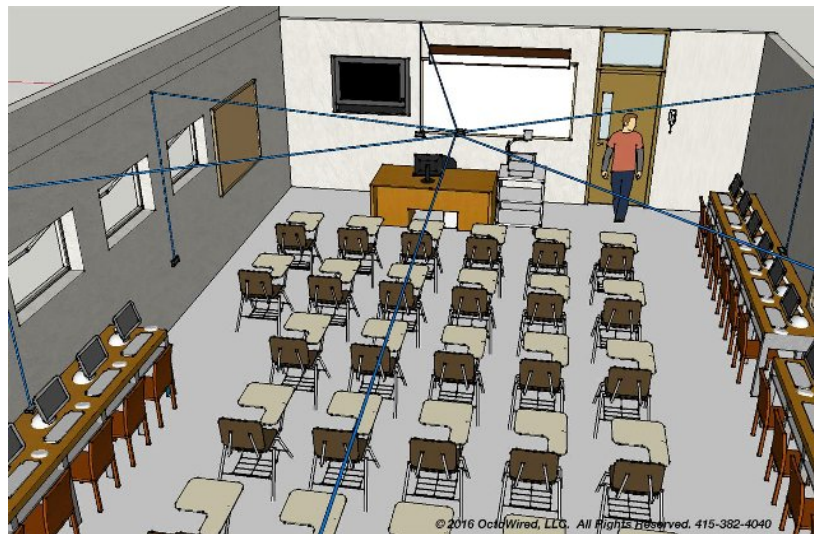
Review and Analysis of Wi-Fi Devices and
Radiofrequency Radiation in Schools for the
Maryland Children's Environmental Health
and Protection Advisory Council. [http://
phpa.dhmh.maryland.gov/OEHFP/EH/](http://phpa.dhmh.maryland.gov/OEHFP/EH/)

Shared%20Documents/CEHPAC/Wi-Fi%20in%20Classrooms_May2016_Capstone.pdf

Wi-Fi Radiation in Schools in Maryland - Final Report. http://phpa.dhmh.maryland.gov/OEHFP/EH/Shared%20Documents/CEHPAC/MD_CEHPAC_SchoolWiFi_022017_final.p

Cyprus Removes Wi-Fi from Kindergartens and Halts Wireless Deployment Into Public Elementary Schools. <http://www.satprnews.com/2017/03/06/cyprus-removes-wi-fi-from-kindergartens-and-halts-wireless-deployment-into-public-elementary-schools/>

Reykjavik Appeal on Wireless Technology in Schools. <http://www.stralskyddsstiftelsen.se/wp-content/uploads/2017/03/Reykjavik-Appeal-170224-2.pdf>



One of many options for wired internet in

schools.

\$500 per forty students. A low cost cabled alternative to wireless classrooms. Eliminate Radiofrequency Radiation Hazards from Classrooms: The OctoWired Solution. [http://safetechforschoolsmaryland.blogspot.com.au/2017/02/eliminate-radiofrequency-radiation.html?](http://safetechforschoolsmaryland.blogspot.com.au/2017/02/eliminate-radiofrequency-radiation.html?utm_source=feedburner&utm_medium=email&utm_campaign=Feed:+SafeTechForSchoolsMaryland+(Safe+Tech+for+Schools+Maryland)OctoWired)

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http://octowired.com/](http://safetechforschoolsmaryland.blogspot.com.au/2017/02/eliminate-radiofrequency-radiation.html?utm_source=feedburner&utm_medium=email&utm_campaign=Feed:+SafeTechForSchoolsMaryland+(Safe+Tech+for+Schools+Maryland)OctoWired)

Inviting Discussion About Safer Tech Use in Schools. <http://www.electronicssilentspring.com/safer-schools/>

Extensive Bibliographies. Doctors' Letters on Wi-Fi in Schools - Full Compilation. <http://phpa.dhmh.maryland.gov/OEHFP/EH/Shared%20Documents/CEHPAC/Doctor%20Letters%20on%20Wi-Fi%20In%20School%20%20Full%20Compilation%20.pdf>

Digital Education

Opinion: No Proof That BCP's Expensive Stat Programs Help Students. <http://towsonflyer.com/2017/02/13/opinion-no-proof-that-bcps-expensive-stat-program-helps->

[students/](#)

Giving Students Wi-Fi Has Made Lessons Chaotic. <https://www.theguardian.com/teacher-network/2017/feb/11/secret-teacher-wifi-classroom-mobile-phones>

The maturation of intelligence requires quiet deep thought. Shallow Minds: How the Internet and Wi-Fi in Schools Can Affect Learning. <http://www.sccma-mcms.org/Portals/19/assets/docs/Wi-Fi%20in%20Schools%20rev.pdf>

Smart Grid

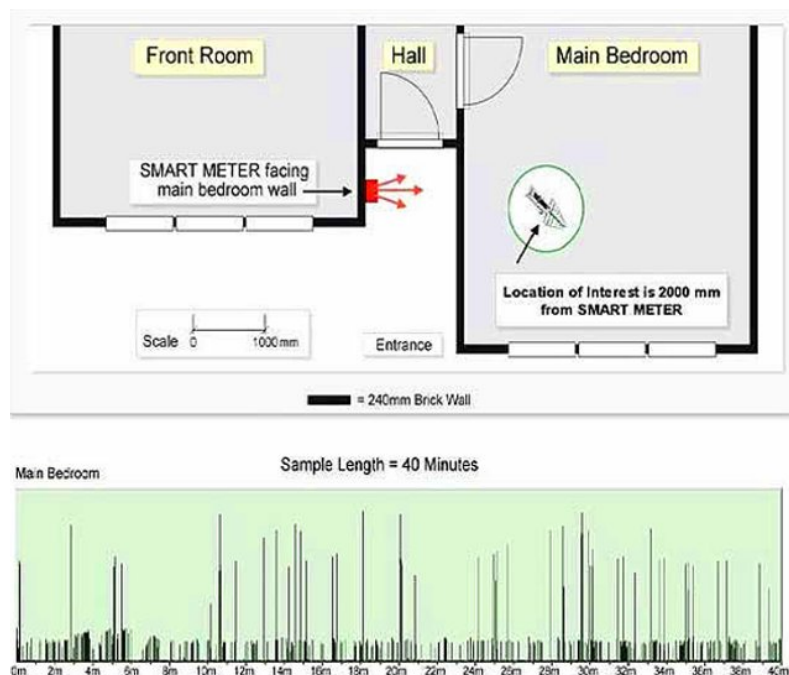
Electricity, Water and Gas Meters, AMI, HAN

Smart Meter Challenge Results in Removal. <https://www.echo.net.au/2017/03/smart-meter-challenge-results-removal/>

Sen. Colbeck Offers Testimony on Need for Smart Meter Opt-out. <https://www.youtube.com/watch?v=xMnLZiMMfGI>

128th Maine Legislature, First Regular Session. An Act To Prohibit an Electric Utility from Charging a Customer for Using an Electromechanical Meter. http://legislature.maine.gov/legis/bills/display_ps.asp?LD=229&snum=128

Californians Are Paying Billions for Power They Don't Need. <http://www.latimes.com/projects/la-fi-electricity-capacity/>



40 minute sample reading reveals near continuous transmission.

"Only on for a few minutes a day". A typically misleading statement from industry. PNM's "Smart" Meter Proposal Meets Resistance. http://www.santafenewmexican.com/news/local_news/pnm-s-smart-meter-proposal-meets-resistance/article_3b349588-528c-5d58-b108-8a5b95ccdadc.html

Smart Meters Causing Tidal Wave of Mysterious Illnesses That Strike People in Their Own Homes. <http://tapnewswire.com/2017/03/smart-meters-causing-tidal-wave-of-mysterious-illnesses-that-strike-people-in-their-own-homes/>

Nerve Disrupting Frequencies Radiating from Smart Meters. <https://www.youtube.com/watch?v=4NTSejgsjTc>

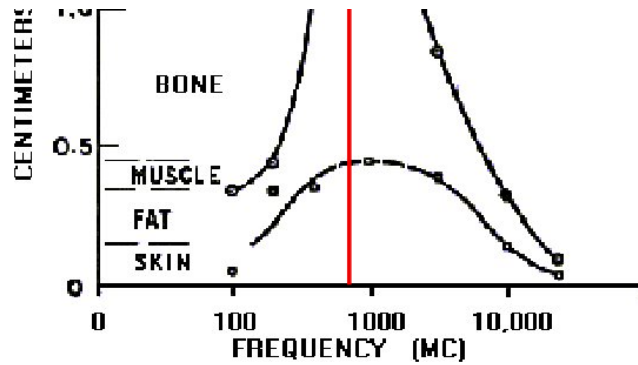
Selling your personal data. ONZO Announces Major Enhancements to Customer Insights Data Analytics Solution. <http://www.prnewswire.com/news-releases/onzo-announces-major-enhancements-to-customer-insights-data-analytics-solution-568136871.html>, <https://www.youtube.com/watch?v=uluKjqzqHDz0>

Internet of Things

The Internet of Things Poses Human Health Risks: Scientists Question the Safety of Untested 5G Technology at International Conference. <http://www.sbwire.com/press-releases/the-internet-of-things-poses-human-health-risks-scientists-question-the-safety-of-untested-5g-technology-at-international-conference-779643.htm#.WMM-9FE3jzM.twitter>

The things you own, will now own you. Smart Mattresses with "Infidelity Detection Systems": The Internet of Things and the Law. <https://www.internetcrime.com/blog/2016/april/smart-mattresses-with-infidelity-detection-syste/>





Another questionable choice. New smart meter frequency occupies region of maximum absorption.

868MHz added. Smart Meter Frequency Change. <http://www.southgatearc.org/news/2017/march/smart-meter-frequency-change.htm#.WOBpPR8tphF>

Ghosts are the best test subjects. High-tech Ghost City to Be Built in New Mexico. <https://www.youtube.com/watch?v=EJrINjZWxXA>

Wearable Technology

Biometrics, Implants, Accessories



The Mobile Phone of the Future Will Be Implanted in Your Head. <https://www.cnet.com/au/news/the-mobile-phone-of-the-future-will-be-implanted-in-your-head/>

How Upgrading Humans Will Become the Next Billion-dollar Industry. <http://www.marketwatch.com/story/how-upgrading-humans-will-become-the-next-billion-dollar-industry-2017-04-03>

Can We Build AI (artificial intelligence) without Losing Control Over It. https://www.ted.com/talks/sam_harris_can_we_build_ai_without_losing_control_over_it

Hacking your fitness band. Waging Doubt on the Integrity of MEMS Accelerometers with Acoustic Injection Attacks. <https://spqr.eecs.umich.edu/papers/trippel-IEEE-oaklawn-walnut-2017.pdf>

Now You Can Give Oral Intercourse Lengthy-Distance By Licking Your Cellphone. <http://realnews.website/now-you-can-give-oral-intercourse-lengthy-distance-by-licking-your-cellphone/>

Germ porn. Your Mobile Phone Is Dirtier Than You Think. <http://info.debgroupp.com/blog/bid/290652/your-mobile-phone-is-dirtier-than-you-think>

Mains Radiation, ELF

Power Grid and Appliances

The Effects of Low-frequency Environmental-Strength Electromagnetic Fields (60Hz) on Brain Electrical Activity. <https://pdfs.semanticscholar.org/ee61/2978af44659a432d986c74faddbf87fbed51.pdf>

Microwave ovens. You Know Microwaves Are Bad For You But This Is What You Didnâ€™t Know. <http://www.healthyfoodhouse.com/know-microwaves-bad-didnt-know/>

Wireless Charging

Wireless Electricity? It's Here. http://edition.cnn.com/2014/03/14/tech/innovation/wireless-electricity/index.html?iid=article_sidebar

A Company Has Finally Said They Will Bring "Real" Wireless Charging. <https://futurism.com/a-company-has-finally-said-they-will-bring-real-wireless-charging/>

Transport, Aerospace

Motor Vehicles, Aircraft, Satellites

round trip	SAS, United		ORD, ARN
\$2,506 round trip	6:25 AM – 10:25 AM* ¹ Delta, FlyBE · Virgin Atlantic	20h 00m	2 stops ATL, LHR
\$2,637 round trip	1:45 PM – 3:25 PM* ¹ British Airways, Alaska	17h 40m	2 stops SEA, LHR
\$2,637 round trip	3:35 PM – 3:25 PM* ¹ British Airways, Alaska · Horizon	15h 50m	2 stops SEA, LHR
\$2,637 round trip	3:35 PM – 4:50 PM* ¹ British Airways, Alaska · Horizon	17h 15m	2 stops SEA, LHR
\$2,637 round trip	3:35 PM – 5:55 PM* ¹	18h 20m	2 stops

Want to avoid Wi-Fi during air travel? Look for the symbol indicating its availability.

Senators Try to Speed Up Deployment of Self-driving Cars. <http://bigstory.ap.org/article/450fa62e23b343a2bd0264f5194c9f5c/senators-launch-effort-get-self-driving-roads-faster>

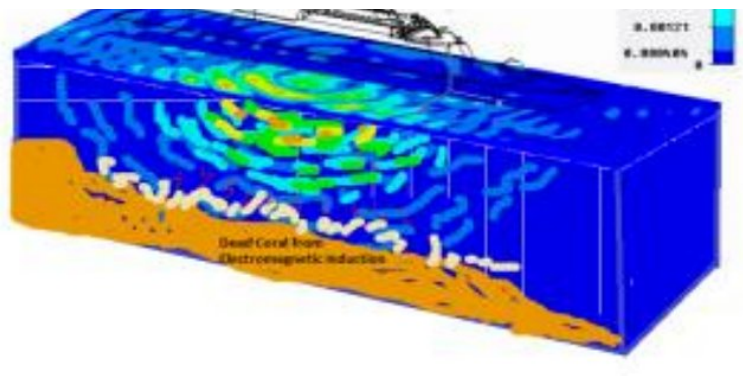
Vehicle to vehicle (V2V) communication is coming. Radiofrequencies in Cars: A Public Health Threat. <http://www.electricalpollution.com/RFinCars.html>

Digital Carjackers Show Off New Attacks. <https://www.youtube.com/watch?v=oqe6S6m73Zw>

EE Shows Off Helium Balloon Mobile Masts. <http://www.bbc.com/news/technology-39041446>

Environment, Wildlife





Evidence for Increased Coral Bleaching and Disease from Accelerated Marine Corrosion Due to Electromagnetic Pollution and Induced Stray Electrical Currents in Seawater. <https://sdsimonson.files.wordpress.com/2015/10/evidence-for-increased-coral-bleaching-and-disease-from-accelerated-marine-corrosion-due-to-electromagnetic-pollution-and-induced-stray-electrical-currents-in-seawater1.pdf>

PMRF, Researchers Meet to Discuss Possible Effects of Base's Activity on Coral, Other Sea Life. http://thegardenisland.com/news/local/military-and-marine-life/article_ddb8fad2-04f2-5323-815d-af3e5246d222.html

Science: Plant and Animal Electrosensitivity. <http://www.electrosensitivity.co/science--plant-and-animal-electromagnetic-sensitivity.html>

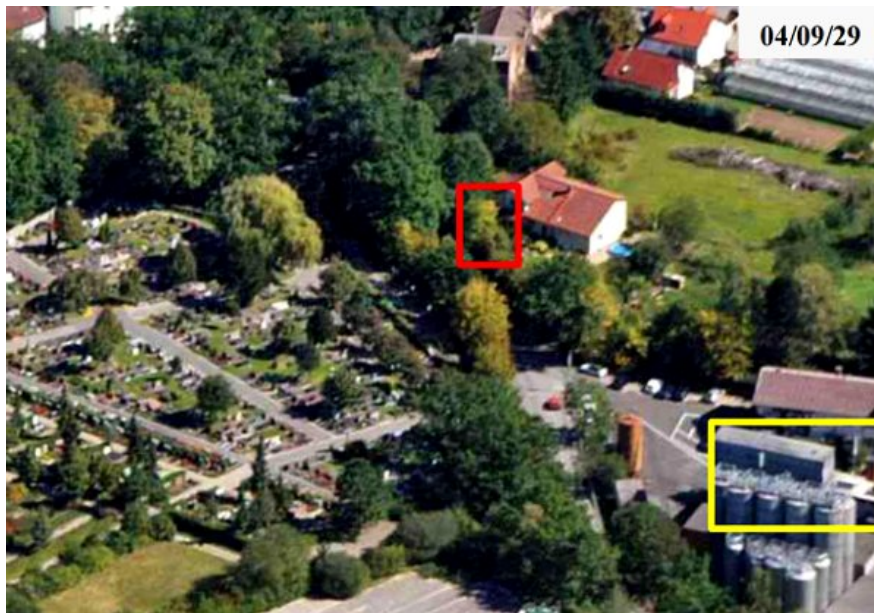
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Dying trees in line-of-sight of phone antenna (yellow box).

Extensive photographic evidence. Trees in Bamberg and Hallstadt in the Radiation Field of 65 Mobile Phone Base Stations. Examples from a Documentation about 700 Trees (2006-2016). <http://kompetenzinitiative.net/KIT/wp-content/uploads/2016/09/Trees-in-Bamberg-and->

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Review: Weak Radiofrequency Radiation Exposure from Mobile Phone Radiation on Plants. <https://www.ncbi.nlm.nih.gov/pubmed/27650031>

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Adverse Influence of Radio Frequency Background on Trembling Aspen Seedlings: Preliminary Observations. <https://www.hindawi.com/journals/ijfr/2010/836278/>

Security

Body Scanners, Surveillance, Non-lethal Weapons

My Friend Cayla: The Doll for Children Accused of "Illegal Espionage". <http://globalnews.ca/news/3258509/my-friend-cayla-doll-illegal-espionage/>

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900998/samsung-hit-with-privacy-class-action-
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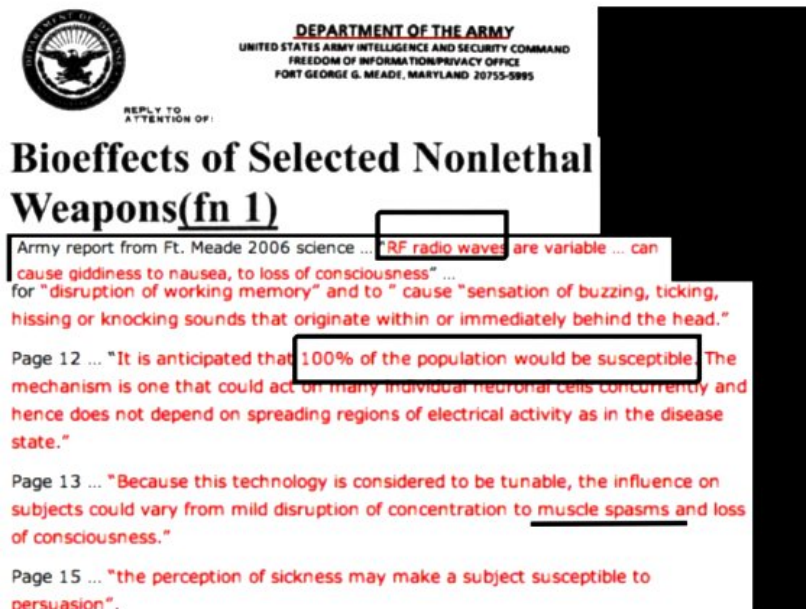


The camera and microphone of most phones and computers can be remotely accessed.

It's Possible to Hack a Phone with Sound Waves, Researchers Show. [https://www.nytimes.com/
2017/03/14/technology/phone-hacking-sound-
waves.html?partner=rss&emc=rss&smid=tw-
nytimes&smtyp=cur&_r=1&mtrref=undefined](https://www.nytimes.com/2017/03/14/technology/phone-hacking-sound-waves.html?partner=rss&emc=rss&smid=tw-nytimes&smtyp=cur&_r=1&mtrref=undefined)

The right to privacy. Naperville Smart Meter Awareness Group Appeals to Higher Court on

Fourth Amendment Violations. <https://smartgridawareness.org/2017/02/22/naperville-group-appeals-to-higher-court/>



The longstanding weaponisation of mobile phone frequencies.

Bioeffects of Selected Non-lethal Weapons.
http://www.usa-anti-communist.com/pdf/Bio_Effects_of_Selected_Non_Lethal_Weapons.pdf

Electro-sensitivity (EHS)

A comprehensive three-part submission by ORSAA to the Australian Productivity Commission. Electromagnetic Hypersensitivity.
http://www.pc.gov.au/__data/assets/pdf_file/0009/214758/subdr171-telecommunications.pdf, <http://www.pc.gov.au/>

[__data/assets/pdf_file/0011/214769/subdr171-telecommunications-attachment1.pdf](http://www.pc.gov.au/__data/assets/pdf_file/0011/214769/subdr171-telecommunications-attachment1.pdf), http://www.pc.gov.au/__data/assets/pdf_file/0003/214770/subdr171-telecommunications-attachment2.pdf

This Former Techie Owes His Fortune to Electronic Devices. Now He Thinks They're Dangerous. <http://www.motherjones.com/environment/2016/12/silicon-valley-cellphones-wifi-sickness-emf-hypersensitivity>

How We Kill Ourselves with Radiation. <https://www.youtube.com/watch?v=bpJsIWuV-PA&feature=youtu.be>

Metabolic and Genetic Screening of Electromagnetic Hypersensitive Subjects as a Feasible Tool for Diagnostics and Intervention. <https://www.hindawi.com/journals/mi/2014/924184/>,

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If you know of any EHS aware Physicians, Sharon Goldberg is reported to be seeking additions for her forthcoming directory. aronshay@gmail.com

Biological Mechanisms

Biological Effects and Health Implications of Microwave Radiation. [http://](http://www.magdahavas.com/wordpress/wp-content/uploads/2011/02/Biological_Effects_and_Health_Implications_of_Microwave_Radiation.pdf)

[www.magdahavas.com/wordpress/wp-content/uploads/2011/02/](http://www.magdahavas.com/wordpress/wp-content/uploads/2011/02/Biological_Effects_and_Health_Implications_of_Microwave_Radiation.pdf)

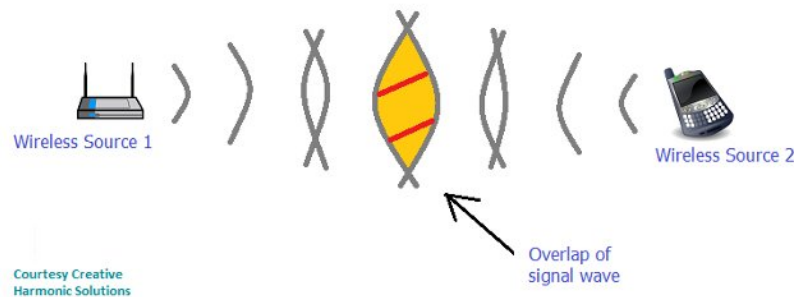
[Biological_Effects_and_Health_Implications_of_Microwave_Radiation.pdf](http://www.magdahavas.com/wordpress/wp-content/uploads/2011/02/Biological_Effects_and_Health_Implications_of_Microwave_Radiation.pdf)

Institute of Electrical and Electronic Engineers.

Some Effects of Weak Magnetic Fields on

Biological Systems. [https://](https://www.emfanalysis.com/wp-content/uploads/2016/04/IEEE-Biological-Effects-of-EMF.pdf)

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Due to constructive interference, the intensity of EMR is generally stronger between multiple wireless devices.

You Won't Believe How EMF's Affect Your Body.

[https://www.youtube.com/watch?](https://www.youtube.com/watch?v=hXLuZEPbQgw)

[v=hXLuZEPbQgw](https://www.youtube.com/watch?v=hXLuZEPbQgw)

Increased Release of Mercury From Dental

Amalgam Fillings Due To Maternal Exposure To

Electromagnetic Fields As a Possible Mechanism

For the High Rates Of Autism In the Offspring:
Introducing a Hypothesis. [https://
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Electromagnetic Fields Act via Activation of
Voltage-gated Calcium Channels to Produce
Beneficial or Adverse Effects. [https://
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Rats Exposed To Cell Phone Microwaves Suffer
Long-Term Memory Loss, According To New
Study By University Of Washington Researcher.
[https://www.sciencedaily.com/releases/
1999/12/991202070403.htm](https://www.sciencedaily.com/releases/1999/12/991202070403.htm)

Why Being Separated from Your Mobile for Just
a Few Minutes Is Almost as Bad as Post-
traumatic Stress Disorder. [http://
www.dailymail.co.uk/sciencetech/
article-4240754/Separated-mobile-lead-
PTSD.html](http://www.dailymail.co.uk/sciencetech/article-4240754/Separated-mobile-lead-PTSD.html)

Phones promote avoidance behaviour. The Black
Box: How Your Phone Can Tell You're

Depressed. <http://www.newsweek.com/black-box-how-your-phone-can-tell-youre-depressed-354099>

For Generation Z, "Live Chilling" Replaces Hanging Out in Person. <https://www.wsj.com/articles/for-generation-z-live-chilling-replaces-hanging-out-in-person-1487519134?emailToken=JRrzf%2FI5YXWThtIzaMwy00dtYaQOBvWAWILQKjXYf0zNqnGQquKgw6E0gdTyu263QU9x6stB72c5SjzXjy9tQdPUmrg6iVq%2BYH5b68iYgVLWYxWCxxI%3D>

Melatonin and Autism



Microwaves and blue light affect the brain. Surge in Children Being Admitted to Hospital for Sleeping Disorders with Many Kept Awake by Technology. <http://www.telegraph.co.uk/news/2017/03/04/surge-children-admitted-hospital-sleeping-disorders-many-kept/>

This is What Happens to Your Brain and Body

When You Check Your Phone Before Bed. <http://www.businessinsider.com/smartphone-impact-brain-body-sleep-2015-2?r=UK&IR=T>

Melatonin in Autism Spectrum Disorders: A Systematic Review and Meta-analysis. <https://www.ncbi.nlm.nih.gov/pubmed/21518346>

Findings in Autism (ASD) Consistent with Electromagnetic Fields (EMF) and Radiofrequency Radiation (RFR). http://www.bioinitiative.org/report/wp-content/uploads/pdfs/sec20_2012_Findings_in_Autism.pdf

Safety Standards

Regulations, Bans and Warnings

Paris to Reduce Exposure to Electromagnetic Waves by 30% (translate from French online) <https://www.goodplanet.info/actualite/2017/03/02/paris-va-reduire-de-30-lexposition-aux-ondes-electromagnetiques/>

Presentations from the "Expert Forum" Held in Jerusalem, Israel. <https://betweenrockandhardplace.wordpress.com/2017/02/17/presentations-from-the-expert-forum-held-in-jerusalem-israel/>

Massachusetts EMF Bills. <https://sites.google.com/site/understandingemfs/ma->

emf-bills

Gaps in Knowledge: An Introduction ... to Be Followed by a Report. <https://betweenrockandhardplace.wordpress.com/2017/03/09/gaps-in-the-knowledge-an-introduction-to-be-followed-by-a-report/>

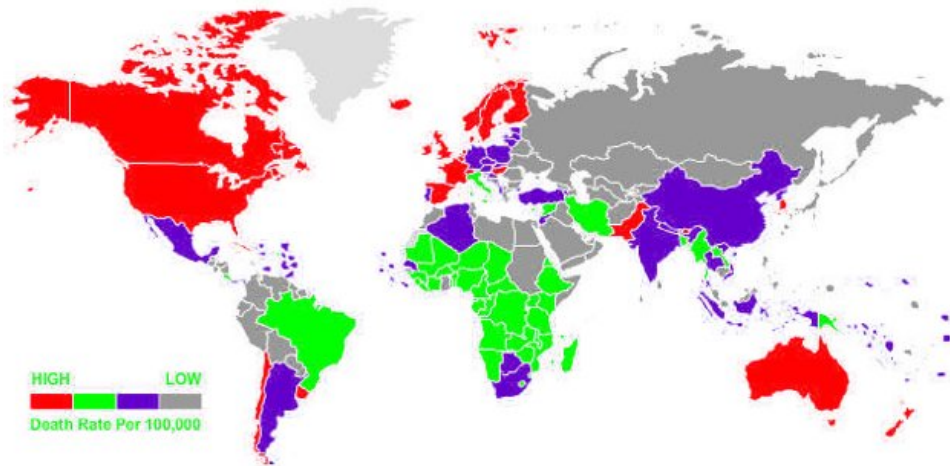
Consensus Statements and Doctors' Recommendations on Cell Phones/wireless. https://ehtrust.org/wp-content/uploads/Doctors_Consensus_Statements_Recommendations_EMF.pdf



Poster on mobile phone safety produced by the Japanese Government.

The Precautionary Principle: A Fundamental Principle of Law and Policy for the Protection of

the Global Environment. [http://
lawdigitalcommons.bc.edu/cgi/viewcontent.cgi?
article=1335&context=iclr](http://lawdigitalcommons.bc.edu/cgi/viewcontent.cgi?article=1335&context=iclr)



Why are Alzheimers and dementia more prevalent per capita in countries that permit the highest EMR exposure?

Letter to the WHO from the Russian National Committee on Non-ionising Radiation Protection. [http://www.radiationresearch.org/
images/RRT_articles/2017_03_01_WHO.pdf](http://www.radiationresearch.org/images/RRT_articles/2017_03_01_WHO.pdf)

Three Davids, One Goliath. Scientists Collaborate to Tell the World Why Microwave Guidelines are Inappropriate. [https://
www.gabriel-technology.de/forschung/emi-
potenzial/three-davids-one-goliath/](https://www.gabriel-technology.de/forschung/emi-potenzial/three-davids-one-goliath/)

Letter by former President of Microsoft Canada to Denmark's Committee on Radiation Protection. <http://nebula.wsimg.com/>

d3b9fbc4f0db87aa0ef7e1f3e0539d2d?
AccessKeyId=045114F8E0676B9465FB&disposit
ion=0&alloworigin=1

Industry Watch

Product Defense, Liability and Legal Action

Judge Says California Must Release Papers Discussing Risk of Cellphone Use. <http://sanfrancisco.cbslocal.com/2017/02/24/judge-orders-california-to-release-papers-discussing-risk-of-cell-phone-use/>

California Govt. Buried Truth: Cell Phone EMF's "Penetrate" Childrens' Brains. <http://tapnewswire.com/2017/03/calif-govt-buried-truth-cell-phone-emfs-penetrate-childrens-brains/>

State Kept Secret Guidelines on Cell Phone Use. <http://www.sfgate.com/news/article/Judge-may-order-release-of-state-health-report-on-10973430.php>

And here are the suppressed "guidelines". Cell Phone Safety Guidance from the California Public Health Department. <http://www.saferemr.com/2017/03/cell-phone-safety-guidance-from.html>, <http://www.sfchronicle.com/file/198/6/1986->

Country	Code	Effect	No Effect	Ratio Effect / No Effect	Uncertain Effect	Positive Effect	NESS (Non-Experimental Supporting Study)
Argentina	ARG	2	0				
Armenia	ARM	3	0				
Australia	AUS	38	24	1.6	5		37
Austria	AUT	17	7	2.4	6	1	8
Bahrain	BHR	0	1		0		
Belgium	BEL	7	6	1.2	2		9
Bulgaria	BGR	6	0		0		
Brazil	BRA	12	4	3.0	1		2
Canada	CAN	8	10	0.8	0		13
Switzerland	CHE	19	10	1.9	6	2	30
China	CHN	138	14	9.9	10	10	8
Czech Republic	CZE	4	1	4.0	1	1	2
Germany	DEU	38	51	0.7	23		20
Denmark	DNK	3	11	0.3	3		3
Algeria	DZA	1	0		0		
Egypt	EGY	23	1	23.0	0		
Spain	ESP	22	2	11.0	2	1	7
Estonia	EST	14	3	4.7	1		1
Finland	FIN	20	27	0.7	8	1	8
France	FRA	39	37	1.1	8	1	12
Great Britain	GBR	21	35	0.6	12	1	35
Ghana	GHA	0	0		0		1
Georgia	GEO	2	0		0		
Greece	GRC	27	0		1		7
Croatia	HRV	25	0		0		1

Countries with less stringent EMR safety standards tend to produce comparatively more research indicating no adverse effects.

See full chart here, compliments of ORSAA. EMR Bio Effect Research by Country. http://www.emraware.com/documents/bioeffects_emr_country.pdf

European Citizens' Organisations Uncover Conflicts of Interest Between the Health and Radiofrequency WHO Expert Group and Telecommunications or Electric Companies. <http://www.peccem.org/DocumentacionDescarga/Plataforma-Estatal/notasprensa/European.coordination.press.release-february-2017.pdf>

Leading EHS advocate Prof. Olle Johansson was recently forced to retire by the Karolinska Institutet of Sweden. They are responsible for selecting Nobel Laureates in physiology and medicine, and receive conditional funding from the phone manufacturer Sony Ericsson. Warrior Connection interviews Prof. Johansson. <http://prn.fm/warrior-connection-03-20-17/>

Medical Alert that Economic Interests Downplay Electrosensitivity (translate from Spanish online). <http://www.lavanguardia.com/vida/20170227/42353296156/medico-alerta-que-intereses-economicos-minimizan-la-electrohipersensibilidad.html>, http://www.elperiodicomediterraneo.com/noticias/castellon/es-fin-cuatro-anos-calvario-enfermo-aislado-betxi_1053306.html

Comments to the FCC on 5G by the Information Technology & Innovation Foundation. See page 4 for this lobbyist's prejudicial advice to "disregard wildly overstated claims of potential harm". <http://www2.itif.org/2017-comments-mobilite-petition.pdf>

Example of a law firm specialising in EMR litigation. Frasier, Frasier & Hickman. <http://www.cellphonecancer.com/>

Congolese children mine toxic Cobalt for digital devices. Special Report: Inside the Congo Cobalt Mines That Exploit Children. <https://>

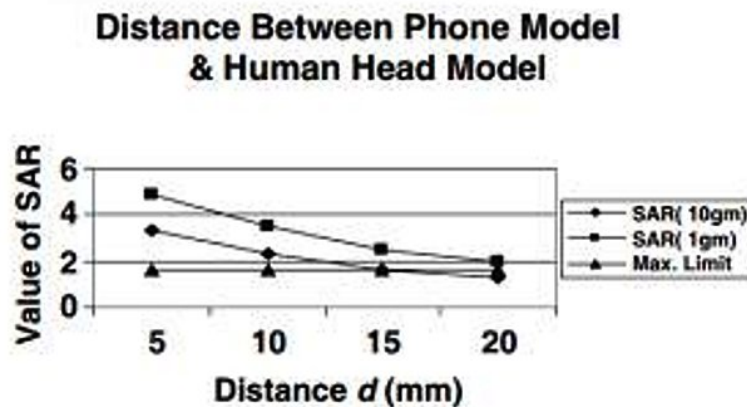
www.youtube.com/watch?v=JcJ8me22NVs

EMR Countermeasures

Personal Precautions and Monitoring

One way to convert your Apple tablet to wired internet. Lightning to USB 3 Camera Adaptor.

<http://www.apple.com/shop/product/MK0W2AM/A/lightning-to-usb-3-camera-adapter>



Holding a phone even 20mm away from your head may reduce absorption by 5 times.

Did you read the fine print? The Secret Inside Your Cell Phone. https://www.youtube.com/watch?v=Wm69ik_Qdb8&feature=youtu.be

The Warning in Your Smart Phone. http://sydney.edu.au/business/news_and_events/opinion/2015/the_warning_in_your_smart_phone

An app for Australian consumers that generates maps of nearby towers, including frequency and service provider. Aus Phone Towers. <https://play.google.com/store/apps/details?id=au.com.bitbot.phonetowers&hl=en>



Inexpensive pouches are available online that block mobile phone signals for safety or security.

General Events & Networking

A petition to sign. Legislate to Keep NBN Towers at Least 1Km from Our Schools. https://www.change.org/p/emma-husar-keep-nbn-towers-at-least-1km-from-our-schools?recruiter=165017429&utm_source=share_petition&utm_medium=facebook&utm_campaign=autopublish&utm_term=des-lg-notification-reason_msg

Keep Landlines in Rural Areas. <https://>

www.gopetition.com/petitions/keep-land-lines-in-rural-areas.html

Stop Smart Meters! Local Group Directory.

<http://stopsmartmeters.org/frequently-asked-questions/contacts-database/>

Free DVD - Read the Science



This DVD was produced in response to readers who requested a resource dedicated entirely to peer-reviewed science on the adverse effects of EMR. 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. Alternatively, much of the same information can be accessed via the links provided [here](#).

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 linked documents, and exercise in accord with the content of same the utmost due diligence and duty of care.



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