

EMF Updates from Ireland

From: John Weigel <jweigel0@gmail.com>

Subject: EMF Updates

Date: July 6, 2020 at 4:22:02 PM PDT

Ladies and Gentleman,

The Public-Private Partnership (read Fascist) relationship between private enterprise and the unelected European Commission is yet another instance of government supporting industry at the expense of the public. The effect of electromagnetic pollution on the public is ignored.

This latest initiative stems from the 5G Action Plan for Europe (5GAP), which "calls for actions to achieve uninterrupted 5G coverage in all urban areas and along all main transport paths across Europe by 2025."

Not only will there be no escape for most Europeans, plans involve the provision of digital services to vehicles. Naturally, this technology is a system for tracking vehicles including cars, trucks and even boats on inland waterways.

For an unelected governmental body to support this technology is authoritarian and certainly not democratic. There was no plebiscite, public vote or referendum. It is a control system that is being imposed without regard to the health impacts on human beings or animals.

This technology, when married to the iPhone, becomes a tool to match car and driver wirelessly with pinpoint accuracy. (See article below.)

Much to their credit, two Euro MP's are questioning the health effects of electromagnetic radiation. In the link posted below from Giorgio Cinciripini of *Retenoelettrosmogitalia* in Italy, he notes that debate in Europe has been "hijacked" by corporate interests. This indicates that 703 MPs are unwilling to confront industry and the European Commission itself on the health impacts of electromagnetic radiation.

It is yet another example of the cowardice and / or lack of concern of officials elected to represent the voting public.

The irony is that EU representatives work from offices shielded from 5G by a moratorium on its deployment in Brussels.

Please circulate widely.

Kind regards,

John Weigel

Ireland

Updates

EU boosts investment in 5G hardware innovation and trialling 5G-based connected and automated mobility

Eleven new Horizon 2020 projects under the European 5G Public-Private Partnership (5G-PPP), will kick off in September 2020. The objective will be to seize opportunities in 5G

hardware innovation and to validate 5G ecosystems for connected and automated mobility (CAM) along three new European cross-border corridors.

<https://ec.europa.eu/digital-single-market/en/news/eu-boosts-investment-5g-hardware-innovation-and-trialling-5g-based-connected-and-automated>

"This rampant corruption...
hides from the public scientific truths."
—Dr. Luc Montagnier, 2008 Nobel Laureate for the
isolation of the HIV retrovirus

PLAGUE OF CORRUPTION

RESTORING FAITH IN THE
PROMISE OF SCIENCE

Dr. Judy Mikovits
& Kent Heckenlively, JD

Foreword by

Robert F. Kennedy, Jr.

Children's



“What this book teaches you more than anything else is that science is a dangerous game. The notion that science is precise and unambiguous is wrong. When there is doubt, there is the potential for powerful interested parties to make life miserable for a scientist with integrity. Throughout the book, intrigue is seamlessly intertwined with fascinating revelations about the still poorly understood science behind the potential role of retroviruses in mysterious debilitating diseases like chronic fatigue syndrome and autism.”

—**Dr. Stephanie Seneff, Senior Research Scientist, MIT Computer Science and Artificial Intelligence Laboratory**

https://www.ebooks.com/en-ie/book/209698333/plague-of-corruption/heckenlively-kent-mikovits-judy-kennedy-robert-jr-/?src=feed&gclid=CjwKCAjwrvv3BRAJEiwAhwOdM5FPrmBgQRQzFOZLnrDHT0hmw430lcaxCaMX7Kr9q7GUxEtQ45yN_BoC9z0QAvD_BwE

Opponents of 5G networks set fire to Cyprus’ mobile antennas

NICOSIA, Cyprus (AP) — A small group of people who oppose 5G mobile telephone technology is likely responsible for arson attacks against four mobile telephone antenna installations in Cyprus’ coastal town of Limassol, a Cypriot police official said Friday.

Police spokesman Christos Andreou told The Associated Press that law enforcement authorities have agreed with telecommunication service providers to step up security measures around antenna installations including stronger fencing and more frequent police patrols.

A statement issued by state-owned Cyprus Telecommunications Authority said that authorities are “greatly troubled” over the overnight arson attacks against antennas in three different parts of the city this week.

<https://apnews.com/4e7cdfbfeca9ed47d3d283e2cba4ba43>

Ericsson 5G - Made for innovation

At Ericsson, our 5G is made for innovation. No matter what you’ve set your sights on, we offer you the speed and flexibility you need to empower new services and use cases for people, businesses, and society at large. Let’s explore 5G!

Explore Ericsson’s live 5G networks (global map)

<https://www.ericsson.com/en/5g>

Ford and Vodafone team up to build electric cars with 5G factory

Ford and Vodafone have confirmed that they are working together to build a futuristic car factory that utilises 5G connectivity.

Vodafone is supplying a private 5G network to Ford’s new E:PrIME (Electrified Powertrain in Manufacturing Engineering) facility in Dunton, Essex, with a predicted completion date of Autumn 2020. The extra performance and increased bandwidth is expected to speed up manufacturing, improve security, and increase productivity.

In terms of specific applications, this new private 5G network will improve the performance of welding machines on Ford’s electric vehicle line.

<https://5g.co.uk/news/vodafone-electric-cars-5g-factory/5344/>



Frequency Q & As

Q: My understanding is that the higher the frequency, the more data can be moved/carried on a wavelength. Is that right?

A: That is right, and it applies quite well to fiber optic cable frequencies, as well — those of visible light 405–790 THz.

- 103 Hz = kHz or kiloHertz (AM/FM Radio)
- 106 Hz = MHz or MegaHertz (low-band and mid-band wireless)
- 109 Hz = GHz or GigaHertz (high-band wireless; mmWaves between 30 GHz and 300 GHz) more data
- 1012 Hz = THz or TeraHertz (data pulsed on visible light frequencies via fiber-optic cables) even more data

The panoply of USA RF electromagnetic microwave radiation (RF-EMR) frequencies/wavelengths in a 4G/5G world

Source: US Senate Bill 19: the Mobile Now Act

With **densified 4G/5G wireless**, the panoply of harmful micro-wavelengths and modulation patterns to be deployed in nearly all public and private spaces — **24/ 7/365, forever** — is harmful to all living organisms and therefore **staggeringly dumb**, since nearly all of our broadband needs are **better met with FTTP**: safe, secure, fast **Fiber Optics to the Premises**.

- **5G**: 600 MHz = waves 20 inches long
- 4G: 700 MHz = waves 17 inches long
- 3G/4G: 800 MHz = waves 15 inches long
- 3G/4G: 900 MHz = waves 13 inches long
- 3G/4G: 1800 MHz = waves 7 inches long
- 3G/4G: 2100 MHz = waves 6 inches long
- Wi-Fi: 2450 MHz = waves 5 inches long (unlicensed)
- **5G**: 3100 MHz to 3550 MHz = waves 3.8 to 3.3 inches long
- **5G**: 3550 MHz to 3700 MHz = waves 3.3 to 3.2 inches long
- **5G**: 3700 MHz to 4200 MHz = waves 3.2 to 2.8 inches long
- **5G**: 4200 to 4900 MHz = waves 2.8 to 2.4 inches long
- Wi-Fi: 5800 MHz = waves 2.0 inches long (unlicensed)
- **5G**: 24,250 to 24,450 MHz = waves 0.5 inch long
- **5G**: 25,050 to 25,250 MHz = waves 0.5 inch long
- **5G**: 25,250 to 27,500 MHz = waves 0.4 inch long
- **5G**: 27,500 to 29,500 MHz = waves 0.4 inch long
- **5G**: 31,800 to 33,400 MHz = waves 0.4 inch long
- **5G**: 37,000 to 40,000 MHz = waves 0.3 inch long
- **5G**: 42,000 to 42,500 MHz = waves 0.3 inch long
- **5G**: 57,000 to 64,500 MHz = waves 0.3 inch long (unlicensed)
- **5G**: 64,000 to 71,000 MHz = waves 0.2 inch long
- **5G**: 71,000 to 76,000 MHz = waves 0.2 inch long
- **5G**: 81,000 to 86,000 MHz = waves 0.1 inch long

Pulsed, data-modulated, Radio-frequency Electromagnetic Microwave Radiation (RF-EMR) causes scientifically-established melatonin-suppression, immuno-suppression, and immediate/direct neurological damages, as well as other bio-effects — all which increase synergistically, not merely additively, with the increased complexity of many simultaneous wavelength deployments for 4G/5G antennas.

The plans for 5G call for deploying significantly more data bandwidth and, therefore, more data-per-second than ever deployed in the entirety of human history. This ill-advised plan would result in significantly more adverse bio-effects.. Even worse, 4G/5G RF-EMR is to be beam-formed and sprayed via 15-degree-wide beams, a deployment that approaches maser-like, direct-energy weapons (DEW). A maser is a microwave laser or microwave taser.

- As a wavelength approaches body-part size, its absorption increases exponentially. Thus, microwaves, waves in the “size of life”, have been known for decades as the most bioactive and harmful RF-EMR. When a wavelength approximates a body dimension, resonance is achieved: the body part or whole body effectively becomes a concentrating antenna.
- Similarly, this RF-EMR interferes with electronic medical devices. See Mobile Communications Safety pp. 65-94 — *RF interference (RFI) of medical devices by mobile communications transmitters*.
- The ~20” waves (from 600 MHz T-Mobile 5G) penetrates deeply into human and animal bodies, maximizing harm in babies and small children.
- The ~2” to 5” waves (from 2,450 MHz to 5,800 MHz Wi-Fi) target the primary organs: brain, heart, lungs, liver, thyroid, thymus, kidneys, genitalia, in humans and larger animals.
- The 10 to 0.1 millimeter waves (from 30,000 MHz to 300,000 MHz) target the most critical organs of perception – eyes and ears – in addition to the body’s largest organ: the skin.
- Resonating at the lengths of insect antennas, these mm microwaves can exterminate of pollinating insects such as bees and butterflies , and birds and all other wildlife, as well.
- Farm animals are immediately harmed by 4G/5G RF-EMR — Initially torturesome to all living beings by way of neurologic interference, organisms.
- Oppose all RF-EMR deployment in your neighborhood, municipality and state as vigorously as possible

<https://scientists4wiredtech.com/what-are-4g-5g/4g-5g-penetration/>

CONFERENCE: Realising transformative services through 5G core November 2020 UAE

With 5G networks approaching commercial deployment, it’s essential the core network is ready for the substantial changes which are about to arrive

<https://tmt.knect365.com/5g-core/>



AFR American Freedom Radio
No Rules...No Taboo Topics...No Fear Of Doom!

BACKSTORY
WITH KATE MAGDALENA
“COVID-19 AND THE CLIMATE CHANGE AGENDA”
SPECIAL GUEST
DEBORAH TAVARAS




WEDNESDAY JUNE 10TH, 2020, 4 PM PACIFIC
LISTEN LIVE @
www.americanfreedomradio.com

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

From Prof. Andrew Michrowski, P.A.C.E., Canada

‘Hazards of wireless technologies, 5G, and the IoT’ now available on youtube

Wisconsin for Safe Technology has posted a video of "Hazards of Wireless Technologies, 5G, and the IoT" on youtube at: https://www.youtube.com/watch?time_continue=3174&v=faSSMkA6jUo&feature=emb_logo Please watch it, post it on social media, and ask local and national officials to watch it. It is imperative that everyone begin to fully understand the health and environmental hazard posed by wireless technology, as well as other sources of radiofrequency/microwave exposure. Only then can good public policy be formulated.

Here are links to the [presentation slides](#) and also press releases [preceding](#) and [following](#) the presentation. Please circulate "[Dangers Of 5G: New Technology Draws Concerns For The Environment, Public Safety](#)" widely via social media and email and to public interest organizations.

All families with children should read Glow Kids by Nicholas Kardaras. Although technology is promoted as a learning tool for children, there is strong evidence that it is actually counterproductive and even harmful to allow your children to use screen technology at too young an age and for very much time at all. Remember marketing is the tool by which industry convinces us to do what they want us to do in order to make profits. What is best for an industry, is often not best for society. Experience with tobacco, lead paint, asbestos, radium, and others have shown us this. Despite the allure, there is strong evidence that the technology industry is no different.

Please circulate this article "Safety tips for use of digital technology by children at home" by Joel M. Moskowitz, Ph.D., Director of the Center for Family and Community Health, University of California, Berkeley and this press release "[Staying Safe at Home During the Corona Crisis: Tips for Reducing Your Family's](#)

Exposure to Wireless Radiation". Individuals interested in minimizing their RF exposure can find steps for doing so on the Solutions page at www.ElectricalPollution.com.

Please also donate to the Environmental Health Trust lawsuit against the FCC which seeks to invalidate [FCC Order 19-126](#) and force the FCC to update their limits for RF/MW exposures, see for more information <https://ehtrust.org/ehlegalaction-againstfconhealtheffectsofcellphones/>

Sources for additional information:

The Environmental Health Trust <https://ehtrust.org>

Physicians for Safe Technology <http://www.mdsafetech.org/>

Wisconsin for Safe Technology <https://www.WisconsinSafeTech.com>

Catherine Kleiber <webmaster@electricalpollution.com>

LOGGED! Your iPhone has a hidden map of EVERYWHERE you go – how to find it

YOUR iPhone keeps track of your real-world movements – which you can view on a map.

The little-known feature is buried deep within your iPhone settings, and shows your exact movements over the past few months.

<https://www.the-sun.com/lifestyle/tech/1035842/iphone-map-location-tracking-significant-settings/>

5G: How (and WHY) to protect yourself from EMF exposure and the upcoming 5G influx

"The purpose of this site is to give citizens a place to report physical and neurological symptoms that are related to RF radiation. Over time, the data collected will be analyzed and tracked to identify, both geographical and symptomatic patterns. Once this data is processed, we will forward reports to government policy makers, providing them the evidence required to force change."

<https://zapmapper.com>

<https://drqlorlane.com/emf-protection/>



VIDEO: The real plan with the new cell towers

<https://www.youtube.com/watch?v=gBq3KCTnhNk&feature=youtu.be>

We`re now posting a genocide notice on our website, use it to inform those who are putting out dangerous information to the public about the known 5G weapons system deployment and the virus pandemic cover for the planned genocide.

We now have strong prima facie evidence of the genocide agenda proposed for mankind from 5G and contaminated vaccines

<https://www.saveusnow.org.uk/5g-genocide-liability-notice-updated-june-2020/>

A study in the UK has suggested a link between 5G Covid-19 conspiracy beliefs and the justification of violence.

Psychologists from Northumbria University in the UK claim to have found a link between between the belief in 5G Covid-19 conspiracy theories and a psychological term called 'state anger'. Over the course of the Covid-19 pandemic, reports have emerged of attacks against 5G base stations in response to

unfounded conspiracy theories claiming that the technology was playing a key role in the spread of the pandemic.

<https://www.siliconrepublic.com/innovation/anger-paranoia-5g-covid-19-conspiracy-theories>

From Denise Rowland, human rights activist, writer and performer, South Africa

I'm the scientist who sets the global guidelines on 5G safety. Take it from me: 5G doesn't cause cancer or spread COVID-19.

Conspiracy theories blaming 5G for the coronavirus have exploded online.

Dr. Eric van Rongen is vice chair at the International Commission on Non-Ionizing Radiation Protection, which sets the global guidelines for phone makers and telecommunications companies on how much radiation is safe for humans.

Contrary to many 5G conspiracy theories, phone radiation heats the human body the equivalent of having a cup of hot tea every two hours, he says.

He also added that it's physically impossible for 5G to transmit COVID-19 or weaken your immune system to make you more susceptible to infection.

"The science is really straightforward — there's simply no solid evidence that anything other than a small amount of body heating may result from exposure to 5G radiofrequency fields," he says.

Dr. Eric van Rongen is vice chair at the International Commission on Non-Ionizing Radiation Protection (ICNIRP), the independent scientific body in charge of setting limits on exposure to non-ionizing radiation.

Eric van Rongen. Eric van Rongen

He helped to update the guidelines on exposure to radiofrequency electromagnetic fields that also pertain to 5G, the fifth generation technology standard for cellular networks that's making our smartphones and wireless devices upload and download faster than ever. The new technology has been met with a number of conspiracy theories circulating online, which van Rongen says have no basis in science.

We are independent scientists reviewing all of the scientific literature about 5G.

<https://www.businessinsider.com/scientist-sets-guidelines-5g-safety-conspiracy-theories-debunked-2020-6>

European Commission - shaping Europe's digital future.

Updated 17 June 2020:

Electromagnetic fields and 5G

The European Electronic Communication Code calls for consistency and predictability throughout the Union regarding the way the use of radio spectrum is authorised while protecting public health and at the same time ensuring more consistent deployment conditions for 5G across the Union. The existing scientific evidence on electromagnetic field exposure confirms that 5G networks will not cause more electromagnetic emissions than it is allowed.

This means that 5G will not have a negative effect on people's health.

Electromagnetic fields and wireless devices

An electromagnetic field (EMF) is a physical field produced by stationary, spinning or moving electrically charged particles. EMF is not a recent phenomenon from the digital world, electric and magnetic fields exist in nature. However, as the number of smartphones, tablets, laptops and many other connected devices increase, it has raised concerns about how EMF exposure might affect our health.

Some citizens perceive the fifth generation of wireless networks - 5G - as a threat to public health, as they think that EMF exposure is higher than exposure from current 4G networks. At the same time, opposition to 5G is making it difficult for certain stakeholders to fully roll out 5G networks.

Some of the expressed concerns have been classified as disinformation.

5G and exposure to electromagnetic fields:

What does science say about 5G? Let's talk with Antonella Viola! (Full professor of General Pathology at the Department of Biomedical Sciences, University of Padova, and vice-director of the Venetian Institute of Molecular Medicine.)

Full transcript at: https://ec.europa.eu/digital-single-market/en/electromagnetic-fields-and-5g?fbclid=IwAR1EcOxXTNtVky54IxRVFGufijpgbhhoPdn3rzloYP_J0m7gZJYGF4-Yt9M

5G: How (and WHY) to protect yourself from EMF exposure and the upcoming 5G influx

"The purpose of this site is to give citizens a place to report physical and neurological symptoms that are related to RF radiation. Over time, the data collected will be analyzed and tracked to identify, both geographical and symptomatic patterns. Once this data is processed, we will forward reports to government policy makers, providing them the evidence required to force change."

<https://zapmapper.com>

<https://drgloriane.com/emf-protection/>

From Louis Slesin, New York

**MICRO
WAVE
NEWS**

A Report on Non-Ionizing Ra

Who Is ICNIRP's #1 Sponsor?

The German government is the main sponsor of ICNIRP, the International Commission for Non-Ionizing Radiation Protection.

The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU), which is the bureaucratic parent of the Federal Office for Radiation Protection (BfS), has contributed 70-80% of ICNIRP's annual income in each of the last three years. This does not include revenue from the sale of books and fees to attend workshops.

<https://microwavenews.com/short-takes-archive/bfs-support-icnirp>

The MASSIVE change coming to 7-Eleven: Stores roll out controversial facial recognition technology putting customers under constant surveillance - and the reason will surprise you

- 7-Eleven has installed new technology at more than 700 stores across country
- Technology linked to online tool Rate It will be used to verify customer feedback
- Convenience store chain insists the software is 'not used for any other purpose'

Customers will be under more surveillance every time they walk into a 7-Eleven but the reason for the new CCTV isn't to stop theft.

The convenience store chain has rolled out facial recognition software at more 700 than stores across Australia to be used to verify customer feedback rather than as an anti-theft measure.

The software is connected to Rate It, an online customer experience platform that runs on a tablet device in-store. 7-Eleven confirmed the installation of the new technology after a growing number of eagle-eyed customers noticed new signs at store entrances in recent weeks.

<http://www.scoopweb.com/2020/06/the-massive-change-coming-to-7-eleven.html>

Marin supervisors urged to reject 5G wireless antennas out of health concerns

Close to 200 people turned out this week to implore the Marin County Board of Supervisors to resist installation of antennas for the next generation of wireless telecommunications technology known as 5G.

Although a few speakers mentioned the unsightliness of the antennas, most focused on concerns about health due to increased exposure to radio waves.

Dozens of people spoke during a 3-½-hour workshop convened by the supervisors Tuesday to discuss direction to staff on possible amendments to the county's regulations for wireless antenna siting.

<https://www.marinij.com/2019/02/06/marin-supervisors-urged-to-reject-5g/>

EU 5G Appeal – Scientists warn of potential serious health effects of 5G

In an appeal to the European Union, more than 180 scientists and doctors from 36 countries warn about the danger of 5G, which will lead to a massive increase in involuntary exposure to electromagnetic radiation. The scientists urge the EU to follow [Resolution 1815 of the Council of Europe](#), asking for an independent task force to reassess the health effects.

“We, the undersigned scientists, recommend a moratorium on the roll-out of the fifth generation, 5G, for telecommunication until potential hazards for human health and the environment have been fully investigated by scientists independent from industry. 5G will substantially increase exposure to radiofrequency electromagnetic fields (RF-EMF) on top of the 2G, 3G, 4G, WiFi etc. for telecommunications already in place. RF-EMF has been proven to be harmful for humans and the environment.”

<https://www.jrseco.com/european-union-5g-appeal-scientists-warn-of-potential-serious-health-effects-of-5g/>

China apparently left out of Israel's 5G network tender

The first phase of the tender for building the 5G wireless network in Israel has passed its deadline, with Chinese bidders apparently left out.

June 4 was the deadline for companies to submit their bids for the deployment of 5G wireless networks in Israel. And while the Communications Ministry has not yet revealed the names of all the telecommunication groups participating in the tender for the next-generation cellular network, it seems that China was left out. According to a [Channel 12 report](#) May 27, the Defense Ministry recommended against allowing Chinese firms to participate in the construction of the country's 5G infrastructure.

The closure of the 5G tender was certainly good news for newly appointed Communications Minister Yoaz Hendel. [He said](#), "This is an important day for Israel, on the brinks of a new technological revolution. The fifth-generation technology will enable speedy developments in the fields

<https://www.al-monitor.com/pulse/originals/2020/06/israel-us-china-g5-wireless-network-tender-communication.html#ixzz6RMKbRuZH>

Censorship and the emergence of the thought police

John.

It is always a pleasure to hear from you and most interesting to read content of your mails when I am allowed to.

Strange but sometimes when I open a message I very often am told that content is restricted and so I am censored. Not often but enough to let me know that full freedom is now not for the masses.

However keep sending your stuff until your house explodes.

Hope to see you soon,

P. Mc

From Prof. Andrew Michrowski, P.A.C.E., Canada

A senior IEEE Engineer wrote an article on the health effects of 5G, which was published a few days ago on June 18.

Now, just a few days later, it is gone, censored, because it discussed 5G's health effects. For now, a cached copy can be read here

https://webcache.googleusercontent.com/search?q=cache%3AptZFrA3qewcJ%3Ahttps%3A%2F%2Felectronics360.globalspec.com%2Farticle%2F15299%2F5g-and-its-effects-on-human-health&fbclid=IwAR0EKv7dOs6ucKjnyUmVvb42srdzl-iPQo799FAEswsiDwFvhEL2fr4_4TY

But that will disappear too. A pdf copy is attached in case the link no longer contains the article when you click on it.

The Author is Abbas Haider, a Senior Member of Institute of Electrical and Electronics Engineers (IEEE), USA. He has been appointed as a Member of the Board of Governors for National Information Technology Board (NITB), headed by the President of Pakistan."

Contact tracing: updates on operating systems

"But many smartphone users have discovered that a new coronavirus tool has already been placed on their phones as part of a regular software update for iPhones by Apple. The latest version of Apple's smartphone software offers an application programming interface, or API, a toolkit that governments can use to build their own contact-tracing apps...."

<https://www.telegraph.co.uk/technology/2020/06/22/contact-tracing-technology-may-already-iphone-wont-work-yet/>

"Over time, Apple and Google do have plans to provide coronavirus-related contact tracing without requiring a dedicated app."

<https://pressreality.com/2020/06/29/have-apple-google-silently-installed-covid-19-tracker-on-your-phone-heres-what-you-need-to-know/>

"Why uninstalling the exposure notification framework is a bad idea

I would strongly advise you not to follow any of the guides you may find online with instructions for how to remove the framework altogether. These involve rolling back to a previous version of the operating system and ensuring that automatic updates are disabled to prevent any further updates from being installed. As a cybersecurity person, I cannot stress enough what a bad idea it is not to be protected against attackers who would exploit unpatched vulnerabilities in either Android or iOS. If you are anxious about the privacy of your data, and this is why you want to disable the COVID-19 exposure notification capability, then it makes no sense to open up your device to attacks with the potential to access your data."

<https://www.forbes.com/sites/daveywinder/2020/06/28/how-to-disable-apple-and-googles-covid-19-notifications-on-your-phone-coronavirus-tracking-and-contact-tracing-app/#45f6938a7242>

Giorgio Cinciripini, co-founder of Retenolettrosmogitalia, Italy

How the industry influenced research on the effects of EMFs

Tobacco company Phillip Morris has published documents that clearly show that the strategy to protect the tobacco industry, as well as pesticide and cell phone companies, has been to minimize legitimate science through a well-funded public relations effort by a coalition of corporate-funded groups. Electromagnetic fields, tobacco and pesticides are mentioned in one of Phillip Morris' 1994 articles. Scientific analyzes show that industry funding can and does influence research on radio frequency radiation.

http://e-smogfree.blogspot.com/2020/06/come-lindustria-ha-influenzato-la.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+No+elettrosmog+Italia++GIUGNO+2020

Cyprus National Committee on Environment and Children's Welfare: a guide to distance learning

It is nice to be able to communicate now that we are "staying at home". Technology helps us stay in touch even from afar. Let's learn the best way to do it ... safely!

http://e-smogfree.blogspot.com/2020/06/comitato-nazionale-cipro-ambiente-e.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+No+elettrosmog+Italia++GIUGNO+2020

Vodafone to speed up Irish 5G roll-out using new Ericsson tech

Vodafone Ireland has said it is trialling new technology that will allow it to transmit 5G speeds using existing antenna infrastructure.

Vodafone Ireland said it will be able to have 30pc population 5G coverage by March of next year thanks to new technology called dynamic spectrum sharing (DSS). The technology, provided by Ericsson's Spectrum Sharing, will allow the mobile operator to deliver both 4G and 5G speeds on the same spectrum using existing antenna infrastructure.

By the end of the month, Vodafone said DSS will be deployed in 57 sites across 11 counties – Cork, Cavan, Galway, Dublin, Roscommon, Kerry, Limerick, Meath, Mayo, Offaly and Wicklow. Further expansion will be rolled out in the years ahead.

<https://www.siliconrepublic.com/comms/vodafone-5g-ireland-ericsson-dss>

IEEE publishes a 'demanding' article on EMF damage ... after a few hours ... withdraw it! after a few days

In March 2020, a scientific paper was accepted which concluded that "... People should be informed that EMR from the daily use of cellular devices, Wi-Fi and Bluetooth are harmful ..."

In a few days the work was withdrawn! On 24.6.2020 a committee of 'experts' called COMAR has continued the following work in which everything is completely retracted.

http://e-smogfree.blogspot.com/2020/06/ieee-pubblica-un-articolo-impegnativo.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

Study of the two European parliamentarians of the Greens (Ravasi and Bichner) on ICNIRP

Detailed report by two Green European MEPs "This report addresses a problem whose importance cannot be underestimated: the possible health effects of Radiofrequency Radiation (RfR) or electromagnetic fields (EMF). It deals more specifically with how the scientific debate has been hijacked by the corporate interests of the telecommunications sector. "

http://e-smogfree.blogspot.com/2020/06/studio-dei-due-parlamentari-europei-dei.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

MTN Consulting: 5G stations will consume much more energy than 4G ones

A typical 5G base station consumes up to double or more of the power of a 4G base station, writes MTN Consulting chief analyst Matt Walker, in a new report entitled "Operators Facing an Energy Cost Crisis".

http://e-smogfree.blogspot.com/2020/06/mtn-consulting-le-stazioni-5g.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

Still on the strong increase in energy consumption for 5G

The prospect of having to increase spending on electricity - energy demand could triple with the introduction of 5G equipment, according to GSMA

http://e-smogfree.blogspot.com/2020/06/ancora-sul-forte-incremento-di-consumo.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

<https://www.bloomberg.com/news/articles/2019-09-14/eco-friendly-phone-companies-brace-for-5g-s-energy-bill>

Belgian Superior Health Council - 2019 on exposure to electromagnetic fields

Close exposure to power lines has been associated with childhood leukemia. Non-ionizing radiation from microwaves has been shown to act through the activation of voltage-dependent calcium channels, inducing biological impacts at non-thermal levels.

http://e-smogfree.blogspot.com/2020/06/consiglio-superiore-della-sanita-belga.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

Timothy Schoechle, Ph.D at FCC: exposure limits are wrong for non-thermal effects

Dr. Schoechle is an international consultant in computer and communications engineering and in development of technical standards. Currently he is the secretary of the ISO / IEC SC25 1 working group, the international committee for standards for the home electronic system. He concludes: The existing limits [see those of

ICNIRP] are inadequate because they do not consider in the weak (non-thermal) field effects on biological systems and processes.

http://e-smogfree.blogspot.com/2020/06/timothy-schoechle-phd-fcc-i-limiti-di.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

Effects of antennas on trees

"The statistical analysis of the many data acquired in all those years has shown that the electromagnetic radiation of radio base stations of cell phones are harmful to trees."

http://e-smogfree.blogspot.com/2020/06/effetti-delle-antenne-sugli-alberi.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

COVID-19 there is a "device" for monitoring respiration

a 'gadget' that attaches (adhesive!) to the trachea and serves to monitor various parameters related to the patient's breathing capacity.

http://e-smogfree.blogspot.com/2020/06/covid-19-ce-un-device-per-monitorare-la.html?utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

Justice takes the field

AMONG THE VERY FEW ASSOCIATIONS THAT FOR 20 YEARS HAVE BEEN FIGHTING AGAINST ELECTROSMOG, WITH STRENGTH AND TENACITY, THERE IS APPLE OF PADUA. also to the innovative position of the Italian judiciary on the subject) .AIE SUPPORTS THE FUNDAMENTAL COLLECTION OF FUNDS FOR URGENT LEGAL ACTIONS AGAINST THE IMPOSITION OF THE 5G NETWORK. A DIRECT PASSAGE FOR ALL OF US, NOW.

http://www.applelettrosmog.it/?fbclid=IwAR3nulsJlb-ouiBDnQ5FpUI4POCzipu69HkScNTuYI6Q92tp5bgkf01wqbk&utm_source=phplist75&utm_medium=email&utm_content=HTML&utm_campaign=Newsletter+della+Rete+Noelettrosmog+Italia++GIUGNO+2020

www.retenoelettrosmogitalia.it

5G: How (and WHY) to protect yourself from EMF exposure and the upcoming 5G influx

"The purpose of this site is to give citizens a place to report physical and neurological symptoms that are related to RF radiation. Over time, the data collected will be analyzed and tracked to identify, both geographical and symptomatic patterns. [Once this data is processed, we will forward reports to government policy makers, providing them the evidence required to force change.](#)"

<https://zapmapper.com>

<https://drgloriane.com/emf-protection/>



No sufficient health research on 5G but... it is OK to deploy, claims Polish government... it is safe to use, claims ICNIRP...

WE KNOW THAT WE DON'T KNOW BUT... UNDER DICTAT FROM TELECOMS AND ICNIRP, GOVERNMENTS DEPLOY 5G WITHOUT PRE-MARKET TESTING AND WITHOUT SETTING RESEARCH AGENDA ON 5G AND HEALTH.

<https://betweenrockandhardplace.wordpress.com/2020/07/02/no-sufficient-health-research-on-5g-but-it-is-ok-to-deploy-claims-polish-government-it-is-safe-to-use-claims-icnirp/>

From Angela Tsiang, California

Study finds brain difference in blood flow between EHS and non-EHS patients

A new study from France (Greco 2020, attached) was just published a few days ago on June 24, 2020, presenting evidence of statistically significant differences in blood flow in the brains of EHS patients compared to non-EHS patients. EHS stands for electrohypersensitivity, a functional impairment experienced by those who react to the effects of electromagnetic fields and/or wireless radiation with headaches and neurological symptoms such as insomnia and inability to concentrate, cardiovascular symptoms, tinnitus, allergic reactions and other immunological problems, fatigue, nosebleeds, and/or skin rashes. Microwave sickness is a subset of EHS, and refers to these reactions when they are caused by chronic wireless radiation exposure. Per Merriam Webster: <https://www.merriam-webster.com/medical/microwave%20sickness>

Microwave Sickness: a condition of impaired health reported especially in the **Russian medical literature** that is characterized by **headaches, anxiety, sleep disturbances, fatigue, and difficulty in concentrating and by changes in the cardiovascular and central nervous systems** and that is held to be caused by prolonged exposure to low-intensity microwave radiation.

Below is a summary of evidence of physical injury suffered by those with EHS via brain scans and skin pictures from a few studies.

1) An ultrasound scanning technique, called Ultrasonic cerebral tomosphygmography (UCTS), has shown statistically significant differences in the pulsatility index (a measure of the variability of blood velocity) in the brain tissue of those who have been injured by wireless radiation ("EHS") compared to "normal" patients (Greco 2020):

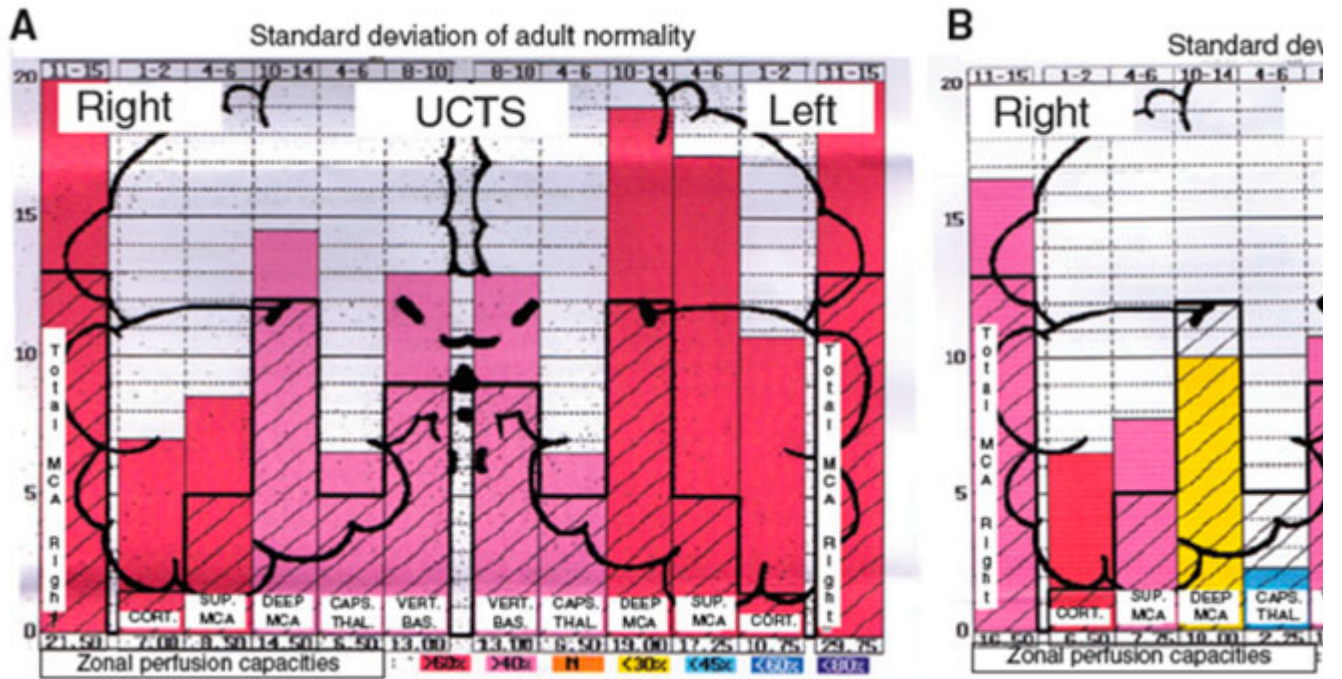


Image A, on the left, is a scan of the "normal" patient.

Image B, on the right, is a scan of the "EHS" patient.

Here's a table of the pulsometric index from the scans showing statistically significant differences (all $p < 0.004$) in the brain scans between "normal" and "EHS" patients:

Table 3. Mean pulsometric index measurement (\pm SD) obtained by us: areas investigated in temporal lobes of EHS-, MCS-, and EHS/MCS-bearing concomitant controls (unpublished data).

Temporal Lobe	Tissue Areas Analyzed	Apparently Healthy Subjects \pm SD <i>n</i> = 84	EHS Patients \pm SD <i>n</i> = 65	<i>p</i> **	EHS-MCS Patients \pm SD <i>n</i> = 29
Right	carotidian	20.39 \pm 4.33	12.74 \pm 4.25	<0.00001	12.38 \pm 3.5
	cortical-subcortical	6.02 \pm 2.90	5.26 \pm 3.01	0.19	4.91 \pm 3.0
	superficial MCA	10.38 \pm 3.99	7.79 \pm 3.55	0.00055	7.97 \pm 3.8
	deep MCA	14.40 \pm 2.44	7.47 \pm 2.78	<0.00001	7.82 \pm 2.3
	capsulo-thalamic	5.81 \pm 0.96	2.14 \pm 1.56	<0.00001	2.22 \pm 1.5
	vertebro-basilar	11.04 \pm 1.65	8.02 \pm 2.12	<0.00001	8.45 \pm 1.6
Left	vertebro-basilar	10.95 \pm 1.81	5.22 \pm 2.71	<0.00001	5.55 \pm 3.0
	capsulo-thalamic	5.32 \pm 1.38	3.24 \pm 2.19	<0.00001	3.19 \pm 2.2
	deep MCA	13.89 \pm 2.54	9.77 \pm 3.36	<0.00001	9.33 \pm 3.1
	superficial MCA	11.29 \pm 4.25	8.63 \pm 3.51	0.0005	8.81 \pm 3.6
	cortical-subcortical	6.88 \pm 3.50	5.06 \pm 2.93	0.004	5.34 \pm 3.2
	carotidian	20.58 \pm 5.09	14.85 \pm 4.55	<0.00001	17.27 \pm 13.

EHS, electrohypersensitivity; MCS, multiple chemical sensitivity EHS; SD, standard deviation; *p* values) obtained by using the two tailed Student t-test for comparison between apparently healthy subjects used as concomitant controls. *** Significance level obtained by using two tailed Student t-test for comparison between the EHS-MCS-bearing patients used as concomitant controls. **** Significance levels (*p* values) obtained by using two tailed Student t-test for comparison between the MCS-bearing patients and apparently healthy subjects. *p* values indicates no-statistical significance.

2) fMRI brain scans found differences in brain activity among those with "EHS" compared to "normal" (Heuser 2017)

In 10 adults with **EHS**, all 10 **fMRIs showed abnormalities that were similar, often described as a hyper connectivity of the anterior component of the default mode in the medial orbitofrontal area.** Regular MRI studies done on these patients were unremarkable (i.e. normal). Another finding of this study was that many of the EHS patients had a history of head injury sometime prior to EHS development.

The 10 patients had mainly neurological EHS symptoms such as **headaches, memory and cognitive impairment, attention deficit disorder, and changes in behavior**

*"We propose that functional MRI studies should become a diagnostic aid when evaluating a patient who claims electrohypersensitivity (EHS) and has otherwise normal studies. Interestingly, the differential diagnosis for the abnormalities seen on the fMRI includes head injury. It turns out that many of our patients indeed had a history of head injury which was then followed sometime later by the development of EHS. Many of our patients also had a history of exposure to potentially neurotoxic chemicals, especially mold. **Head injury and***

neurotoxic chemical exposure may make a patient more vulnerable to develop EHS."

fMRI brain scan images of EHS (left) vs. Non-EHS (right):

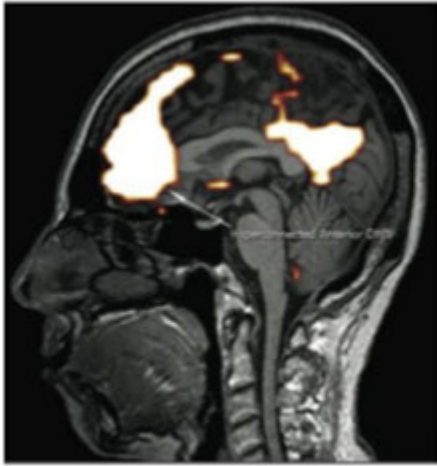


Figure 5: Lateral view of case no. 5.

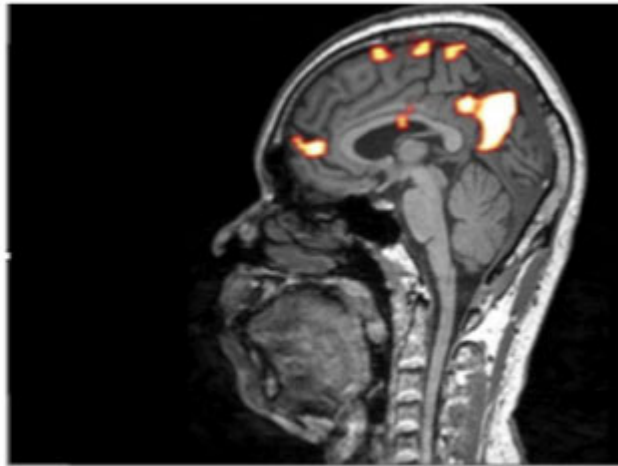


Figure 11. Lateral view of a normal fMRI. Note absence of abnormal white areas seen in our patient group.

3) Approximately 45% of those afflicted with EHS show physical manifestations of EHS in their skin as skin lesions (Belpomme 2020 <https://www.mdpi.com/1422-0067/21/6/1915/htm>):

A**B**

4) The 2014 DeLuca

study <https://www.hindawi.com/journals/mi/2014/924184/>

found statistically significant genetic and metabolic differences between EHS and non-EHS and reduced levels of glutathione and impaired detoxification ability in EHS, further evidence of EHS as a medical condition.

In addition, risk of **EHS development was increased 9.7 times in individuals who are missing two genes GSTM1 and GSTT1**, which are glutathione S-transferase (GST) enzymes that detoxify by conjugation with glutathione

5) Fragopoulou et al 2018 found a marker and mechanism for EHS/wireless health effects , i.e. the RF exposure increases permeability in cell membranes by changing the phospholipid composition. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/brb3.1001>

(Mice were exposed to cell phone radiation within government exposure limits; SAR calculated to be 0.02-0.366 W/kg to the head in the experiment, and phones sold in the US currently cannot exceed a SAR of 1.6 W/kg, which will increase because the 1.6W/lkg will be eliminated under new FCC proposed rules per FCC Docket 19-226)

Effect of the increased cell membrane permeability:

- expression of 178 genes changed significantly ($p < 0.05$), revealing an impact on genes involved in critical biological processes, such as cell cycle, DNA replication and repair, cell

death, cell signaling, nervous system development and function, immune system response, lipid metabolism, and carcinogenesis.

- 16 canonical pathways were significantly enriched ($p \leq 0.05$) with the changes in the expression of the 178 genes, including "Calcium Signaling," "Synaptic Long Term Potentiation," "Production of Nitric Oxide and Reactive Oxygen Species in Macrophages," "Serine Biosynthesis," and "Signaling in Neurons."

From Joel M. Moskowitz, PhD., Berkeley, California

Date: Thu, Jun 18, 2020 at 3:51 PM

400 medical & public health professionals oppose FCC plans: FCC urged to update RF radiation guidelines to protect Americans from harm

Press Release, Americans for Responsible Technology, June 18, 2020

Media Contact: Doug Wood (516) 423-6021

(New York) More than four hundred medical and public health professionals have signed a letter to the Federal Communications Commission (FCC) urging the agency to update its human exposure guidelines for radio-frequency (RF) microwave radiation before approving additional wireless technologies. The letter, filed yesterday in a regulatory procedure, highlights the FCC's failure to consider the established and newly emerging science on RF radiation and its adverse impacts on human health, particularly for vulnerable populations including children and pregnant women.

"Americans are entitled to know the full extent of any potential health risks associated with exposure to RF microwave radiation, particularly at this time when wireless companies are busy installing hundreds of thousands of new wireless antennas in close proximity to homes and apartments," the letter states, noting the Commission's obligation to ensure the "safety of life" for all Americans as set forth in the Communications Act of 1934.

The letter was organized by [Americans for Responsible Technology](#), a national coalition of more than 140 grassroots organizations across 42 states working to educate communities about the health impacts of exposure to RF microwave radiation and opposing further deployment of 5G-enabled wireless antennas in residential areas.

"Science moves slowly, and while this may be inconvenient for the restless purveyors of wireless technologies, it does not excuse the Commission from its obligation to protect public health and safety," the letter states. "Waiting for decades to learn whether or not these exposures increase disease rates in human populations and in the natural world is a dangerous and irresponsible strategy."

The full text of the letter and list of signatories can be found at:

<https://bit.ly/MDFCCletter62020>

Related Posts on Electromagnetic Radiation Safety

["We Have No Reason to Believe 5G is Safe" \(Scientific American\)](#)

[Scientific American Created Confusion about 5G's Safety: Will They Clear It Up?](#)

[5G Wireless Technology: Is 5G Harmful to Our Health?](#)

[5G Wireless Technology: Millimeter Wave Health Effects](#)

[Scientists and Doctors Demand Moratorium on 5G](#)

From André Fauteux, editor / publisher, La Maison du 21e siècle Magazine

Ultrasonic Cerebral Tomosphygmography and EHS/MCS, Dirty Electricity, video and IEEE article on 5G Hazards

For your information, this is a recently published paper from Frederic Greco (Montpellier, France) which confirmed in the peer-reviewed journal "Diagnostics" that the clinical interest of Ultrasonic Cerebral Tomosphygmography (UCTS) is for the diagnosis of EHS and MCS.

His work confirms independently our already published scientific work; by using the same yet uniquely available prototype machine. Given the technical and scientific interest of this method to localize precisely the spontaneous pulsometric defect that we have observed in temporal lobes in EHS and/or MCS patients, we therefore now push international companies to manufacture this type of software which could be included in the widespread and presently existing echodoppler machines.

Best Regards,

Pr. Dominique Belpomme

Honorary Professor of Medical Oncology, MD, MSc, Paris University,

President of the Association for Research and Treatments Against Cancer (ARTAC)

President of the french Society of environmental medicine (ISDE-France)

Executive director of the European Cancer and Environment Research Institute (ECERI), Brussels

57/59 rue de la Convention

75015 Paris

01.45.78.53.53

artac.info

eceri-institute.org/fr/

ehs-mcs.org

appel-de-paris.com

Central nervous system lymphoma and radiofrequency radiation – A case report and incidence data in the Swedish Cancer Register on non-Hodgkin lymphoma

ABSTRACT

Earlier animal studies have provided evidence that non-Hodgkin lymphoma (NHL) may be caused by exposure to radiofrequency (RF) radiation. This was recently confirmed by the U.S. National Toxicology (NTP) study that showed an increased incidence of malignant lymphoma in female mice exposed to the GSM modulated or the CDMA modulated cell phone RF radiation. Primary central nervous system lymphoma (PCNSL) is a rare malignancy in humans with poor prognosis. An increasing incidence has been reported in recent years. Based on a case-report we present the hypothesis that use of the hand-held mobile phone may be a risk factor for PCNSL. The increasing incidence of non-Hodgkin lymphoma in Sweden is discussed in relation to etiologic factors.

<https://www.sciencedirect.com/science/article/pii/S0306987720309567>

Thermal vs. Coherence Effects

In this work, I have tried to show how a coherent frequency can have a biological effect by switching between existing stable frequency states each regulating its own biological activity.

The solution seems to be to avoid specific frequencies from being spread through the environment. These will not necessarily be the carrier frequencies radiated but their modulation frequencies.

Cyril W. Smith

5 July 2020

smithce@waitrose.com

Comment from Vic Leach, ORSAA, Australia:

The issue I think that needs to be addressed immediately is the overuse (heavy user) of mobile phones held to the head, which is dangerous. A heavy user is someone who uses a mobile phone up to their head for over 30 minutes per day (2001-2004 Interphone study) and over 54 minutes per day (2002- 2005 CERENAT study). Statistical significant association started to appear after 5 years of use and very significant in the over 10 years of use group. The Turin Courts also awarded damages on the balance of

evidence. <https://www.phonegatealert.org/en/the-court-of-appeal-of-turin-confirms-the-link-between-a-head-tumour-and-mobile-phone-use>

The statistical association is strong evidence and if you use the Bradford Hill approach you move from a place of association to causation. The ORSAA database shows that at least 4 of the Bradford Hill criteria are strongly indicated

(https://www.researchgate.net/publication/325169912_Radio_Frequency_Exposure_Risk_Assessment

ssment and Communication Critique of ARPANSA TR-164 Report Do we have a problem)

Hardell wrote a paper on this subject (<http://www.ncbi.nlm.nih.gov/pubmed/24192496>).

From Dr. Magda Havas, Canada
drmagdahavas@gmail.com

It is good to see that kHz frequencies (dirty electricity, high frequency voltage transients, power surges, whatever you want to call them) are finally getting recognized for the effects they have on living organisms (both good and bad).

I was introduced to the concept of dirty electricity in 2003 and did a study at a school in Toronto, where we installed the GS filters and reported that both teacher health and student behaviour improved while the filters were installed. We presented the research at an EMF conference in Greece in 2004 (Havas and Illiatovitch 2004).

After we completed that research I met **Dave Stetzer** who explained to me what he learned from the Russians, who knew about this long before we did. **Andre** is well aware of the research in this field but it remains relatively unknown to many experts in the area of electrosmog research where the focus was on ELF and is now primarily on RF/MW radiation.

For those interested in **dirty electricity (DE)** there are publications and videos on how it affects **diabetics** and people with **MS** and how installing GS filters in **schools** improves teacher health (school in Toronto, school in Wisconsin and three schools in Minnesota). We have conducted several studies on energy efficient light bulbs and the dirty electricity they generate and this includes fluorescent as well as LED bulbs. No DE from incandescent light bulbs so I still recommend them for a number of reasons, with the absence of DE being one of those reasons.

Sam Milham and **Lloyd Morgan** also published a study (2008) showing that DE was associated with a high cancer risk at a California school. This is the first study, to my knowledge, linking cancer with DE. Sam also wrote a book about Dirty Electricity that is well worth reading.

I have converted some of the publications into youtube videos to help educate the public. We definitely need guidelines to protect people from this type of radiation. If you are interested in this area visit my youtube channel at www.youtube.com/magdahavas. There is information about DE also on **Dave's** website: www.stetzerelectric.com and on **Katharine Kleiber's** website: www.electricalpollution.com.

Another area that is poorly understood and virtually ignored is **ground current pollution** that is getting worse as our outdated electric utilities connect multiple grounds to fix their inadequate system. The websites above and my youtube channel have information about ground current as well. It turns out that "dirty electricity" can flow along the ground and is responsible for adversely affect on farm animals as well as farmers. Most of the work has been done on dairy farms (several publications here with **Dave** and **Don Hillman**) but hogs, horses and other livestock are also affected. It is worse in some areas than others and seems to be more of a problem in North American than in Europe. Dave has videos on his website showing "dancing cows" as they repeated raise their feet trying to break the electrical circuit flowing through their body. Most people don't realize how serious this problem is especially in Canada and the U.S.

Some Building Biologists recognize the importance of reducing DE in homes/schools/work environments but, unfortunately, many do not and hence do an inadequate job when reducing electrosmog.

I was at a BB conference quite a few years ago in Nashville where I was invited to give a presentation. During the conference one of the attendees came up to me and told me she could not stay at the conference because she was affected by the electrosmog. Several of us went to her hotel room with meters and we found that there was a cell tower not too far from her window, that the ELF magnetic field was high (around 30 mG), and that there was DE in her room as well. Someone had GS filters and they plugged them into the electrical outlets. No changes were made to either the MW from the antennas or the ELF magnetic fields. The next day she said she felt a lot better and was able to remain at the conference. The ONLY improvement was the level of DE was significantly reduced!!!!

Follow your passion ...

-magda

drmagdahavas@gmail.com

From Paul McGavin

[<paul@mystreetmychoice.com>](mailto:paul@mystreetmychoice.com)

Densified 4G/5G "small" Wireless Telecommunications Facilities (sWTFs) Information and Solutions for Ada County and its Towns By Idahoans for Safe Technology May 20, 2020

See page 34 et seq. in the following pdf slides <https://scientists4wiredtech.com/wp-content/uploads/2020/05/2020-0520-Ada-County-ID-sWTF-Ordinance-244.pdf>

RF-EMR Exposure Guideline History

- 1940's: WWII radar injuries, NO Guideline for RF-EMR exposures
- 1953: Herman P. Schwann & three others "suggest" to both Navy/Airforce a guideline of 100,000,000 microWatts/sq. meter ($\mu\text{W}/\text{m}^2$)
- 1965: American National Standards Institute (ANSI) divided Schwann's "guesstimate" by ten for guideline of 10,000,000 $\mu\text{W}/\text{m}^2$
- 1986: National Council on Radiation Protection (NCRP) rejects Specific Absorption (SA), but selects SA Rate or "SAR". (Rpt-86)
- 1996-2020: FCC's RF-EMR Exposure guideline combines . . . ANSI, NCRP and Institute of Electrical and Electronics Engineers (IEEE) for
 - Title 47 CFR §1.1310, with Amendment Effective June 1, 2020
 - Title 47 CFR §2.1093 with Amendment Effective June 1, 2020

From Catherine Kleiber, [webmaster, electricalpollution.com](http://www.electricalpollution.com)

Hazards of Wireless Technologies, 5G, and the IoT" now available on youtube

Wisconsin for Safe Technology has posted a video of "Hazards of Wireless Technologies, 5G, and the IoT" on youtube at: https://www.youtube.com/watch?time_continue=3174&v=faSSMkA6jUo&feature=emb_logo

Please watch it, post it on social media, and ask local and national officials to watch it. It is imperative that everyone begin to fully understand the health and environmental hazard posed by wireless technology, as well as other sources of radiofrequency/microwave exposure. Only then can good public policy be formulated.

Here are links to the [presentation slides](#) and also press releases [preceding](#) and [following](#) the presentation.

Please circulate "[Dangers Of 5G: New Technology Draws Concerns For The Environment, Public Safety](#)" widely via social media and email and to public interest organizations.

All families with children should read [Glow Kids](#) by Nicholas Kardaras. Although technology is promoted as a learning tool for children, there is strong evidence that it is actually counterproductive and even harmful to allow your children to use screen technology at too young an age and for very much time at all. Remember marketing is the tool by which industry convinces us to do what they want us to do in order to make profits. What is best for an industry, is often not best for society. Experience with tobacco, lead paint, asbestos, radium, and others have shown us this. Despite the allure, there is strong evidence that the technology industry is no different.

Please circulate this article "[Safety tips for use of digital technology by children at home](#)" by Joel M. Moskowitz, Ph.D., Director of the Center for Family and Community Health, University of California, Berkeley and this press release "[Staying Safe at Home During the Corona Crisis: Tips for Reducing Your Family's Exposure to Wireless Radiation](#)". Individuals interested in minimizing their RF exposure can find steps for doing so on the [Solutions](#) page at www.ElectricalPollution.com.

Please also donate to the Environmental Health Trust lawsuit against the FCC which seeks to invalidate [FCC Order 19-126](#) and force the FCC to update their limits for RF/MW exposures, see for more information <https://ehtrust.org/ehlegalaction-againstfcconhealtheffectsofcellphones/>

Sources for additional information:

The Environmental Health Trust <https://ehtrust.org>

Physicians for Safe Technology <http://www.mdsafetech.org/>

Wisconsin for Safe Technology <https://www.WisconsinSafeTech.com>

Protecting our health and the environment by using a hardwired computer in a low RF environment. For more information,

www.ElectricalPollution.com

From Prof. Andrew Michrowski

Stop5GAppeal <stop5gappeal@protonmail.com>

NS smart meter concerns - Another IEEE article warns 5G HARMFUL, now gone/censored

stop5gappeal@protonmail.com

Arthur Firstenberg, author, 'Invisible Rainbow', 5G Space Appeal

The evidence mounts - 'Mystery disease in young children'

Children are appearing with "multi-system inflammation with flu-like symptoms," and "with blood parameters consistent with severe COVID-19." The children may be agitated, confused, have severe difficulty breathing, have seizures, low blood pressure, inflammation of the heart, abdominal pain, skin rash and, especially in teenage boys, testicular pain. The disease is being called a variant of either toxic shock syndrome or Kawasaki disease. But the symptoms are all classic effects of radio wave sickness.

Dr. Sircus - Symptoms of 5G, the virus or martian ray guns:

<https://drsircus.com/general/symptoms-of-5g-the-virus-or-martian-ray-guns/>

... Doctors in ICU are reporting bizarre, unsettling cases that don't seem to follow any of the textbooks they've trained on. ...Pediatric Syndrome

Now we have New York's Mayor Bill de Blasio on the 10th of May voiced "tremendous concern" over an uptick in strange cases of a pediatric syndrome, which has left at least three people dead statewide. The mayor said 38 cases of pediatric multi-system inflammatory syndrome detected in New York City, with an additional nine suspected cases awaiting confirmation. **The syndrome** exhibits similarities to Kawasaki disease and toxic shock syndrome. One of the deaths was a five-year-old boy. The children were not known to have pre-existing conditions ...

Comment: Further to your inquiry regarding smart meter concerns in a Halifax condo, I am relaying this overview as expressed by IEEE (Institute of Electrical and Electronics Engineers) peer-review concerning emissions that include smart meters in their communications infrastructure.

The texts are highlighted for your convenience.

I am also relaying this relay to Canadian lawyers who follow such developments.

A senior IEEE Engineer wrote an article on the health effects of 5G, which was published a few days ago on June 18. Now, just a few days later, it is gone, censored, because it discussed 5G's health effects. For now, a cached copy can be read

here https://webcache.googleusercontent.com/search?q=cache%3AptZFrA3qewcJ%3Ahttps%3A%2F%2Felectronics360.globalspec.com%2Farticle%2F15299%2F5g-and-its-effects-on-human-health&fbclid=IwAR0EKv7dOs6ucKjnyUmVvb42srdzI-iPQo799FAEswsiDwFvEL2fr4_4TY

But that will disappear too. A pdf copy is attached in case the link no longer contains the article when you click on it. The author is Abbas Haider, a **Senior Member of Institute of Electrical and Electronics Engineers (IEEE), USA. He has been appointed as a Member of the Board of Governors for National Information Technology Board (NITB), headed by the President of Pakistan."**

Here are some excerpts:

*"As far as the effect on the human body, millimeter waves are reportedly more likely to be absorbed within a couple of millimeters in the skin. Since there have been no previous consumer applications of millimeter waves, there is little scientific data about its impact on human health. However, **limited data about millimeter waves** has shown that it can affect the peripheral nervous system, immune system and the cardiovascular system, even with the short-term exposure."*

Effects of 5G technology on human health

Cancer and tumors

Studies have shown that cell phones, Wi-Fi and other wireless technologies can cause cancer and tumors. The findings are the same for wireless 5G technology. In fact, it is more hazardous as it uses millimeter waves with higher frequencies.

Electrohypersensitivity (EHS)

*Electrohypersensitivity can be defined as a series of syndromes, named idiopathic environmental tolerance, or also known as medically unexplainable symptoms that cause some people to experience the symptoms of fatigue, severe headache, weakness, sleep disorder, memory impairment or a general feeling of illness. Some people tend to develop EHS when they are exposed to high-frequency waves. So, concerns are that 5G technology might cause EHS as researches have shown that **it has been caused by the use of regular cell phones.***

Children and radiational absorption

*Researches have shown that children are more prone to absorb micro radiations because their brain tissue is reportedly more absorbent, their brains are relatively smaller than adults and their skulls are thinner. It might take years to discover the true health consequences among children, but there are also many other reasons why children are at greater risk. One of the reasons is that their bodies and brains are immature and still in the development phase. So, with regards to the impacts of 5G technology on children, the main cause for concern is **heightened exposure.** As in the presence of 5G technology, there is a high possibility that children might be exposed to RF radiations all the time, at home, at school, or even in the parks and streets*

Skin amplifies human health risks

*One of the health risks of 5G technology is how EMF radiations react with the human body. **When human** sweat ducts have been exposed to millimeter waves, studies have shown that they act as an array of small antennas in the shape of a helix. This suggests that these millimeter waves are not only absorbed by the human skin, but are actually amplified by human skin.*

[My note: As early as 1977, biological effects from millimeter waves were found. **Zalyubovskaya 1977 "Biological Effect of Millimeter Radiowaves"** <https://mdsafetech.files.wordpress.com/2019/02/biological-effects-of-millimeter-wavelengths.-zalyubovskaya-declassif-by-cia-1977-biol-eff-mm-waves.pdf> , which was classified information by the CIA until 2012, reported that at a power density of 10,000,000 microwatts/square meter (= 1000 uW/cm², the current FCC exposure guideline for the general public, which the FCC wants to raise to 4000 uW/cm² indefinitely) and frequencies ~ 60 GHz, not only were there negative skin impacts like demyelination of the nerve fibers, but adverse effects were also seen in heart, liver, kidney, spleen tissue, and blood and bone marrow properties, despite the shallow penetration of the millimeter waves through the skin. Myelin is the protective sheath for nerve cells, and myelin is composed of glial cells. We know that glial cells are reactive to radiofrequency radiation, because the \$30

million US government's NTP study found that rats exposed to cell phone radiation developed Schwannomas of the heart and gliomas in the brain, both of which are cancers originating from glial cells. To read more about 5G science, <https://mdsafetech.org/5g-telecommunications-science/>]

5G, DNA damage and the future of the human genome

Another important concern about the effect of 5G technology on human health is its effect on DNA. In the presence of 5G technology, there are greater chances of DNA damage. Damage to DNA could cause serious consequences on the human genome future. According to studies, breakage of DNA strands in living cells can be caused by exposure to both pulsed and continuous RF radiation. The stored information in these DNA cells becomes corrupted.

There are no national safety standards in the US for safe levels of wireless radiation exposure, and the current exposure limits are only guidelines that the FCC has adopted from the wireless industry. In the FCC's own words, **"there is no federally developed national standard for safe levels of exposure to radiofrequency (RF) energy"** and that government agencies "have generally relied on RF exposure standards developed by expert non-government organizations such as the *Institute of Electrical and Electronics Engineers (IEEE)* and the *National Council on Radiation Protection and Measurements (NCRP)*." <https://www.fcc.gov/consumers/guides/wireless-devices-and-health-concerns>

IEEE article published in March 2020: "Electromagnetic Radiation Due to Cellular, Wi-Fi and Bluetooth Technologies: How Safe Are We?"

A summary of the most prominent health hazards with wireless radiation is presented, along with protective and preventive measures to reduce the risk of EMR absorption, and analyses of radiation safety in pre-5G networks and raises concerns regarding safety in 5G networks. **"the current population has already been exposed to dangerous levels of radiation and the resulting adverse health effects may surface in people at any time.. it must be noted that the radiation in 5G networks is suspected to increase by several folds. It will not only affect regions near cell towers and 5G devices but all indoor and outdoor environments in the region of coverage. Thus, almost all people in the area of coverage of 5G networks may be exposed to dangerous levels of EMR...People should be made aware that the EMR from using day to day cellular, Wi-Fi and Bluetooth devices are harmful to human health...According to the current medical literature, various adverse health effects from exposure to RF EMR have been well documented. For now, wireless technologies must be avoided as much as possible. New and innovative wired solutions ... should be encouraged. Intervention of government and medical bodies with the main purpose of protecting human health is of utmost necessity... Countries must adopt the guidelines suggested by medical bodies which take into account both thermal and non-thermal effects of EMR."**

ICNIRP revises guidelines to allow heating in localized tissues! for 5G

Exposure limits for non-ionizing radiation for over 50 countries worldwide are developed from industry guidelines from the ICNIRP. ICNIRP, the International Commission for Non-Ionizing Radiation Protection, has published new guidelines for 2020 to update the radiofrequency EMF part of the 1998 Guidelines (both attached), for 100 kHz-300 GHz. The new 2020 guidelines are actually worse, allowing for larger localized increases in temperature in human tissue that it did not allow before! Why was this done? The increased densification of transmitters and the higher power for the higher frequency transmissions for 5G will raise radiation levels which will cause localized increases in temperature of tissue in people near transmitters. Rewriting the guidelines to allow for the increased localized temperatures will ensure that 5G transmitters will remain compliant to any government exposure limits based on ICNIRP. With these looser guidelines, industry and governments can say that 5G infrastructure meets ICNIRP guidelines (i.e. the guidelines were rewritten so that 5G would be compliant)

Both 1998 and 2020 guidelines recognize only thermal effects and do not acknowledge any significant biological effects below thermal levels, however, the 2020 guidelines now permit large localized increases in temperature, and it adopts 41°C as the threshold for harm for localized tissue heating! (see p. 489.) (Normal body temperature is 37 °C.) In the 1998 guidelines, only a 1 °C maximum increase was allowed for localized tissue and overall body temperature, and it even stated **"adverse biological effects can be caused by temperature rises in tissue that exceed 1°C"** (p. 507) and **"altered thermoregulatory behavior starts when the temperature in the hypothalamic region rises by as little as 0.2– 0.3°C"** (p.505) (The hypothalamic region is located in the brain). **However, the 2020 guidelines now allow for a 2 °C increase in brain tissues and 5 °C increase in corneas, skin, and bones!**

Tissue has been classified into **Type 1 and Type 2**, and temperature rises of 5°C and 2°C, respectively, are permitted for each of these tissue types, with no limit on exposure time (see p. 489)

Type-1 tissue is defined as "all tissues in the upper arm, forearm, hand, thigh, leg, foot, pinna and the **cornea**, anterior chamber and iris of the **eye**, epidermal, dermal, fat, muscle, and **bone** tissue."

Type-2 tissue is defined as "all tissues in the head, eye, abdomen, back, thorax, and pelvis, excluding those defined as Type-1 tissue."

p. 501: "The relevant health effects that the localized basic restrictions protect against are pain and thermally-mediated tissue damage. Within Type-1 tissue, such as in the skin and limbs, pain (due to stimulation of nociceptors)

and tissue damage (due to denaturation of proteins) typically require temperatures above approximately 41°C... Within Type-2 tissue, such as within regions of the Head and Torso (excluding superficial tissue), harm is also unlikely to occur at temperatures below 41°C."

Realize that the way your body's tissues would increase in temperature from RF radiation is by the same way that microwaves cook your food. Water and fat molecules in your tissues absorb the energy from the radiofrequency radiation, which causes them to vibrate. The resulting increased friction between these molecules results in heat. There is no limit specified on exposure time, so these increases in localized tissue heating are considered safe for long-term exposure by the ICNIRP

Cell membrane permeability was recognized to be a biological effect in the ICNIRP 2020 guidelines, but only at exposure levels much higher than current exposure levels (p. 487). Not true! Fragopoulou et al 2018 <https://onlinelibrary.wiley.com/doi/epdf/10.1002/brb3.1001> found that **cell phone radiation increased the cell membrane permeability by changing its phospholipid composition**; this changed the expression of 178 genes significantly, including In the experiment, mice were exposed to 2hr of 1800 MHz radiation from an actual cell phone in talk mode at a distance of 3 cm, at a SAR of 0.02-0.366 W/kg to the head, well under FCC exposure limit of 1.6 W/kg SAR .

To summarize ICNIRP says it's safe to increase temperatures in the skin, cornea and iris, and bones by 5°C, and to increase temperatures in the brain by 2°C, indefinitely!!!

Physical Evidence: Skin Effects at Below Thermal Levels

A new review study was published in March 2020 by Belpomme et al , "Electrohypersensitivity as a Newly Identified and Characterized Neurologic Pathological Disorder: How to Diagnose, Treat, and Prevent It" <https://www.mdpi.com/1422-0067/21/6/1915> It had a picture of the effects of RF radiation on skin, which occurred at below thermal levels. Skin lesions were found in 45% of the EHS patients, and this physical evidence "strongly suggest that EHS and EHS/MCS are objective somatic disorders" Belpomme 2020:

I know of many other children with the same skin lesions. It is painful, the skin swells, erupts and bleeds. Other studies showing skin effects from RF exposure:

- Deluca et al, 2014. <https://www.hindawi.com/journals/mi/2014/924184/> proved that EHS was a medical condition by finding genetic and metabolic differences between EHS and non-EHS, and found **higher levels of oxidized CoQ10 which could explain the dermatitis/eczema seen in 41% of EHS sufferers.**
- Kimata 2005, [Microwave radiation from cellular phones increases allergen-specific IgE production](#) (attached)

"Microwave radiation from cellular phones enhanced allergic responses in patients with atopic eczema dermatitis syndrome (AEDS), while it failed to do so in normal subjects...Nonexposure to microwave radiation (control) had no effect on allergen-specific IgE production, while exposure to microwave radiation significantly increased allergen-specific IgE production (Table 1). This increase was specific to allergen to which AEDS patients were allergic..."

Kimata 2002, [Enhancement of allergic skin wheal responses by microwave radiation from mobile phones in patients with atopic eczema/dermatitis syndrome](#)

Microwave radiation from mobile phones enhanced skin wheal responses induced by house dust mite and Japanese cedar pollen... (AEDS). Microwave radiation also increased plasma levels of substance P (SP) and vasoactive intestinal peptide (VIP) in patients with AEDS [atopic eczema/dermatitis syndrome]

From Patricia Burke, Massachusetts

June 25, 26, 27 EMF TECH and UTILITY NEWS OVERVIEW

See article about Park Service and towers (Grand Tetons)

I am encouraged that the Chicago school program to connect students is focusing on hard wired connections!

Cities suing FCC over June 5G vote

See update on shooting/killing of 2 tower workers in FL - very sad and hopefully not related to any 5G opposition, it looks that way?

QUOTE: Electrical Sensitivity Support Group · Katelyn Elizabeth Facebook post

*Back in March, right before everything shut down in my state, my husband went to lunch with a friend. A few days later, his friend started feeling very sick. A few days after that, my husband started feeling slightly sick for a day or two himself, and then I got brutally ill. His friend called later that week to tell us he tested positive for COVID. I spent weeks thinking I was actually going to die. I couldn't get tested anywhere no matter how sick I was, and when I could barely breathe my doctor told me "whatever you do, don't go to the hospital". There were several nights where my husband packed my things for the hospital and watched me to see if I would get to a critical enough state that he needed to call 911. I was close so many times, but I'm here, and I'm suffering long term symptoms. I'm a "long hauler". One thing I noticed is that my fingers feel like they're getting chemical burns when I use my touch screen or phone for longer than a few minutes at a time. I would honestly believe my skin was actually starting to blister, and I would constantly check my hands to find out everything was in tact and unharmed. I work from my computer, and I noticed that at the end of the day I would start getting severe stroke-like symptoms. On the days I wasn't using my computer much, I would be mostly fine. My mom and aunt ordered those gun sensor thermometers, and I HATE THEM. I keep telling them to stop checking my temp with them because they feel like they're burrowing a hole into my brain. It sets me off. They think I'm insane. I had let them check my baby a couple times with it, but now I'm terrified of it. I don't want it anywhere near my baby's head. I notice when I'm able to take gentle walks with my baby, the closer I get to certain areas the more stroke-like symptoms I get. I was walking with my husband yesterday and I couldn't finish my conversation. I started having severe nerve pain, walking diagonally, dim vision, severe headache, slurred speech. We went to the shore and the only time I seem to feel well is in the morning on the beach, so sometimes I just go to the beach with my phone in airplane mode and sit in the sand for a while not touching any electronics. **My brain and whole body feels like it's buzzing all the time. I do genuinely believe I've suffered severe nerve and vascular damage from this, and now I'm painfully sensitive to electronics.** I can feel when electronics turn on in my house. My husband loves the air fryer, and I have to make sure I'm a safe distance away from it or I get awful headaches. I mean, I have way more going on than just this, but I notice my stroke-like symptoms only seem to happen or become more severe around electronics or EMFs. It's a nightmare... honestly. I don't know what I'm looking for here, but I just needed to vent. Thank you My comment - will long term covid be a precursor to EHS? 🙏*

My comment - will long term covid be a precursor to EHS?

FEATURED: Vet links horse lameness with electronic devices. proximity.

Horse: Chronic lameness originating from the right subtalar joint. Four sessions of classic acupuncture resulted in good, but only temporary, success after each session. No arthritis was visible on the X-ray pictures. At each session, however, again and again the same typical acupuncture points were disturbed, which in my experience indicate an exposure to high frequency electrosmog. It was only when the home DECT-Telephone was removed that the horse's symptoms subsided within a few days without any further treatment. This happened one and a half years ago. Since then there has been no further relapse.

(photo of horse not linked to this case)

<https://groups.google.com/forum/...> (click translate to English then download)

AND

Vet links cat disability with electronic devices proximity

A cat with chronic pain in the lumbar region which makes walking difficult and makes jumping up onto chairs impossible. Painkillers and classic acupuncture

were unsuccessful. Quite soon I suspected electrosmog exposure, however, the owner was reluctant to remove the telephone equipment.

Because further treatments were unsuccessful, the telephone was finally removed one and a half years later, the muscles in the lumbar region relaxed and the cat was soon able to jump up onto chairs again.

<https://groups.google.com/forum/...> (click translate to English and download PDF)

See Also: ENVIRONMENT: 2007 Swiss veterinarian article; pet impacts (Previously posted)

Source:

http://groups.google.com/group/mobilfunk_newsletter/browse_thread/thread/b503480c185f38b7

<http://www.buergerwelle-schweiz.org/DECT-Funktelefon.509.0.html#3901> -

ERFAHRUNGEN AUS DER TIERARZTPRAXIS

Krankheitsursache: Elektromagnetische Hochfrequenzen durch hauseigene

Telefonanlagen und Hausnetzwerke

AUTHOR Christian Métraux, Veterinary Practice [Tierarztpraxis], CH-3084 Wabern / October 2007

EVENT; School's starting soon - JOIN US on ZOOM Sunday - bring questions!

“Back2School2020: What Parents Should Know”

If you'd like to receive the invitation, please respond with ZOOM in subject line and thank you for SUBSCRIBING to my YT channel...

https://www.youtube.com/channel/UCzuZvoQ3sNSGyEZWf4SYf8w?view_as=subscriber

CENSORSHIP: 'Facebook doesn't care': Activists say accounts removed despite Zuckerberg's free-speech stance

“Facebook doesn't care. It closes our accounts on the pretext of terrorism. We are against terrorism and violence,” one journalist said.

<https://www.nbcnews.com/tech/tech-news/facebook-doesn-t-care-activists-say-accounts-removed-despite-zuckerberg-n1231110>

CENSORSHIP: Facebook's war against one of the internet's worst conspiracy sites

Facebook has banned this conspiracy site twice. But its content can still sneak back on.

That's a different process from Facebook's approach to misinformation, which it typically avoids removing. If a page or group repeatedly shares content that's flagged and labeled by the platform's fact-checkers, Facebook can reduce its distribution and remove it from recommendations. Pages can also have their ability to monetize and advertise taken away. In the midst of the pandemic, Facebook has taken to removing false content that could lead to imminent physical harm, but not what BuzzFeed News calls “inevitable harm,” among the other misinformation that it allows to remain up. In 2018, Facebook told New York Times journalist Kevin Roose, “We just don't think banning Pages for sharing conspiracy theories or false news is the right way to go.”

So while Facebook is taking action against Natural News, the company is not doing so under the auspices of fighting against misinformation. From a policy perspective, Facebook is fighting spam.

<https://www.vox.com/recode/2020/6/25/21293246/facebook-misinformation-natural-news-conspiracy-theory>

CHILDREN: DR SPILLMAN

How much technology should you allow in a child's life?

6 minute video:

https://www.youtube.com/watch?v=MUn3_lqdfPo

CHILDREN: Two Kids Sue Google for Allegedly Collecting Students' Biometric Data with Their Educational Tools

<https://www.activistpost.com/2020/06/two-kids-sue-google-for-allegedly-collecting-students-biometric-data-with-their-educational-tools.html>

SCHOOL: Chicago Connected Launches to Provide Free High-Speed Internet Service to Approximately 100K Students

Press Release | Chicago Public Schools

Chicago Connected is a groundbreaking program that will provide free high-speed internet service to approximately 100,000 Chicago Public Schools (CPS) students. This first-of-its-kind program will be one of the largest and longest-term efforts by any city to provide free, high-speed internet over the course of four years to increase internet access for students. According to Census data, an estimated 100,000 students lack access to high-speed internet in Chicago. In order to narrow the digital divide for CPS families, Chicago Connected will provide up to four years of high-speed internet for CPS families who are most in need. Students who are eligible for the program and are planning to enroll in summer school in 2020 will be prioritized as the program rolls out in the coming weeks.

'Chicago Connected' will begin notifying eligible families beginning Monday, June 29, 2020 with the goal of connecting as many of the 100,000 students as possible prior to the 2020-21 school year. **While the initial phase of 'Chicago Connected' will provide wired internet access, Chicago Connected will also extend existing hotspot service for students in temporary living situations for up to four years.**

<https://www.benton.org/headlines/chicago-connected-launches-provide-free-high-speed-internet-service-approximately-100k>

SCHOOLS: Reducing Children's Wi-Fi Exposure: Haifa Schools IT Chief Reuven Kurman

41 minute video

<https://www.youtube.com/watch?v=ajsG5AjPWbl>

SCHOOLS ITALY: New environmentally conscious school and community based on Steiner principles starting this Fall in Italy on a 500 year old vineyard by Building Biologist Lucie Tara McCullough. Bravo Lucie--who is BEING the change we want to see.

<http://www.villageforestschool.com/>

SCHOOLS SWEDEN: Preschool becomes radiation free without WiFi and mobiles

<https://www.stralskyddsstiftelsen.se/2019/03/forskola-blir-strainingsfri-utan-wifi-och-mobiler/>

FCC: FCC Cracks Under Hill Pressure On Ligado 5G Network

"I'm very confident going forward that we've made a decision that is based much more on sound engineering as opposed to some of the fear mongering that we've heard," FCC Chairman Ajit Pai says.

WASHINGTON: As opposition mounts from Capitol Hill — as well as a wider swath of civil GPS users — to the FCC's approval of Ligado's controversial 5G network, at least one of the five commissioners now says she'd be willing to consider reversing the decision.

During a Senate oversight hearing today, Democratic Commissioner Jessica Rosenworcel said she would support a stay of the Federal Communications Commission's decision — that would then allow reconsideration of the approval. The FCC's April 20 finding allows Ligado to use its L-band spectrum allocation — originally slated for use by a satellite constellation — for a terrestrial 5G wireless network.

"Out of respect for you and your colleagues who have said that they're concerned about this...If the chairman was interested in circulating a decision to us staying the decision we recently reached on the L-Band, that would certainly be something I would support because we've got to iron this kind of stuff out if we really want to have a big and bold 5G future," she told the Senate Commerce Committee today.

As Breaking D readers known, DoD and leaders of the Senate and House Armed Services Committees are adamant that Ligado's plans will cause interfere with GPS receivers being used widely by both by military forces stationed in the US and civilian users.

CORRECTION BEGINS. SASC Chair James Inhofe has drafted new legislation aimed at protecting GPS receivers expected to be put forward soon; meanwhile, a new coalition of agriculture, transportation and other civil industries has formed to lobby against the FCC decision. Ranking Member Jack Reed is reviewing the proposal, but has yet to formally sign onto the bill, an aide told Breaking D. CORRECTION ENDS.

<https://breakingdefense.com/2020/06/fcc-cracks-under-hill-pressure-on-ligado-5g-network/>

FCC: FCC Releases Updated List of Eligible Areas for Rural Digital Opportunity Fund Phase I Auction

<https://www.bbcmag.com/breaking-news/fcc-releases-updated-list-of-eligible-areas-for-rural-digital-opportunity-fund-phase-i-auction>

FCC: Charter Wins FCC Block of Upstate New York Broadband Subsidies

<https://news.bloomberglaw.com/mergers-and-antitrust/charter-wins-fcc-block-of-upstate-new-york-broadband-subsidies>

FCC: Diversity Groups: FCC Rural 5G Rollout Should Focus on Poverty, Not Density

Also calls for contracting outreach, muscular DE program

The Multicultural Media, Telecom and Internet Council, joined by more than two dozen national organizations, says the FCC should make sure that the initial tranche of its \$9 billion in rural 5G subsidy funding, if it breaks out that way, goes to help those furthest from digital equality, which includes impoverished African American and Hispanic communities.

That was in comments filed with the FCC, which asked for input on how it should structure the program.

The groups, collectively 5G Fund Supporters," says that means that the FCC should prioritize funding according to poverty, not population density.

It recommended that the FCC "adopt a rollout schedule under which economically depressed rural communities of color--the communities most in need of fast broadband--will be among prioritized first for high-cost support and buildout."

Among the groups commenting were the National Association of Black Owned Broadcasters (NABOB), the National Urban League and the Rainbow-PUSH Coalition.

<https://www.multichannel.com/news/diversity-groups-fcc-rural-5g-rollout-should-focus-on-poverty-not-density>

FCC: Commissioner submits letter of dissent on FCC plan to speed up 5G deployment during pandemic
<https://www.activistpost.com/2020/06/commissioner-submits-letter-of-dissent-on-fcc-plan-to-speed-up-5g-deployment-during-pandemic.html>

FCC: FCC ANNOUNCES TENTATIVE AGENDA FOR JULY OPEN MEETING

WASHINGTON, June 25, 2020—Federal Communications Commission Chairman Ajit Pai announced that the items below are tentatively on the agenda for the July Open Commission Meeting scheduled for Thursday, July 16, 2020:

Designating 988 for the National Suicide Prevention Lifeline – The Commission will consider a Report and Order that would designate 988 as the 3-digit number for the National Suicide Prevention Lifeline to aid rapid access to suicide prevention and mental health support services. (WC Docket No. 18-336)

Call Blocking Rules – The Commission will consider a Third Report and Order, Order on Reconsideration, and Fourth Further Notice of Proposed Rulemaking that would continue the Commission's work to combat unwanted and illegal calls and implement portions of the TRACED Act. (CG Docket No. 17-59)

Secure Networks Act Implementation – The Commission will consider a Declaratory Ruling and Second Further Notice of Proposed Rulemaking that would integrate provisions of the recently enacted Secure and Trusted Communications Networks Act of 2019 into its existing supply chain rulemaking proceeding. (WC Docket No. 18-89)

Wireless E911 Location Accuracy Requirements – The Commission will consider a Sixth Report and Order and Order on Reconsideration that would further its effort to improve vertical (or Z-Axis) location accuracy for wireless 911 calls, which will help first responders quickly locate people calling for help from multi-story buildings. (PS Docket No. 07-114)

Modernizing Priority Services Rules – The Commission will consider a Notice of Proposed Rulemaking that would streamline and update its rules to ensure that priority service programs operate effectively for emergency workers as technology evolves. (PS Docket No. 20-187)

Leased Commercial Access – The Commission will consider a Second Report that would modernize the leased access rate formula by adopting a tier-based calculation. (MB Docket Nos. 07-42, 17-105)

Improving Broadband Data and Maps – The Commission will consider a Second Report and Order and Third Further Notice of Proposed Rulemaking that would establish requirements to ensure that the Commission collects accurate and granular data on the availability of broadband service through the Digital Opportunity Data Collection, and would seek comment on additional measures to implement the requirements of the Broadband DATA Act. (WC Docket No. 19-195)

Public Drafts of Meeting Items – The FCC publicly releases the draft text of each item expected to be considered at the next Open Commission Meeting. One-page cover sheets are included in the public drafts to help summarize each item. All these materials will be available on the FCC’s Open Meeting page: www.fcc.gov/openmeeting.

<https://www.fcc.gov/document/fcc-announces-tentative-agenda-july-open-meeting-7>

FCC: Groups Seek Panel’s Action on FCC Transportation Spectrum Proposal

<https://www.ttnews.com/articles/groups-seek-panels-action-fccs-59-ghz-spectrum-proposal>

FCC: FCC Acts To Ensure Critical Wireless Infrastructure Projects Continue To Proceed During Pandemic

Public Notice | Federal Communications Commission

The Federal Communications Commission has been working throughout the COVID-19 pandemic to ensure that critical communications infrastructure projects continue to proceed at a time when so many Americans are relying on high-speed Internet services. On June 25, the FCC announced a process that has been developed in coordination with the Advisory Council on Historic Preservation that will further expedite the process for reviewing those infrastructure builds. This additional process allows wireless licensees to request expedited review for essential and immediate projects that respond to the COVID-19 pandemic as well as emergency authorization for infrastructure projects critical for responding to the pandemic.

<https://www.benton.org/headlines/fcc-acts-ensure-critical-wireless-infrastructure-projects-continue-proceed-during-pandemic>

<https://www.fcc.gov/document/fcc-ensures-critical-wireless-infrastructure-projects-can-proceed>

5G OPPOSITION: 400 Medical and Public Health Professionals Oppose FCC Plans for Expanded Wireless Technology:

Letter Urges FCC to Update RF Radiation Exposure Guidelines to Protect Americans from Harm

The full text of the letter and list of signatories can be found at:

<https://bit.ly/MDFCCletter62020>

5G: Majority of Scientists Are Opposed to 5G Until Studies Show It's Safe

<https://www.activistpost.com/2020/06/majority-of-scientists-are-opposed-to-5g-until-studies-show-its-safe.html>

5G: NEW STORE ARRIVAL: CAR MAGNETS!

Dear Friend, Whenever you go for a drive, you can let people know where you stand on 5G with our brand new car magnets!

<https://www.5gcrisis.com/online-store>

5G: CANADA Oona McOuat, aided by some other members, has provided 2 excellent and important documents to help municipalities prepare for the advance of the 5G grid by Telus, Bell, and others throughout BC and Canada.

Creating a Proactive Antenna Siting Protocol & Small Cell Licensing Agreement

- <https://stopsmartmetersbc.com/wp-content/uploads/2020/06/Creating-a-Proactive-Antenna-Siting-Protocol-Small-Cell-Licensing-Agreement-Version-3-by-Grassroots-Communications-June-20-2020.pdf>

Getting it wrong in "Getting it right: Preparing for 5G deployment in your municipality"

<https://stopsmartmetersbc.com/wp-content/uploads/2020/06/Getting-it-wrong-in-%E2%80%9CGetting-it-right-Preparing-for-5G-deployment-in-your-municipality%E2%80%9D-Version-3-by-CALM-re-Federation-of-Canadian-Municipalities-Guide-June-20-2020.pdf>

5G: ITALY, JUNE 2020 - 20 000 people in 50 cities are saying NO to 5G

For the fifth time in a single year, the Italian Stop 5G Alliance descends into the squares of Italy. 20,000 people united in the largest human chain against the electrosmog ever made so far.

In Florence, 15,000 people in Piazza Santa Croce, many slogans and Stop 5G signs. Other 5,000 citizens were distributed in the remaining 47 events from Turin to Palermo, passing through Cagliari and Pescara. In January 2020, 3,000 people had mobilized.

<https://www.orvietonews.it/ambiente/2020/06/23/bagno-di-folla-con-i-sindaci-in-50-citt-20-000-persone-per-dire-stop-5g-contro-il-piano-colao-79454.html>

5G: CITIES SUE FCC OVER JUNE 5G VOTE— A mix of local governments from Oregon and California have filed a legal challenge to overturn the FCC’s declaratory ruling on 5G wireless infrastructure, which commissioners approved earlier this month over Democratic objections. Although FCC Republicans argue the vote will speed up 5G builds on existing communications infrastructure, the cities told the 9th Circuit Court of Appeals that their actions “unlawfully preempt local and state government authority” without responding to local government input..

— On Wednesday, Wicker drilled down on how the FCC should dole out broadband subsidies to telecom companies while the agency still lacks good data on its availability, frequently pressing Pai and Democratic Commissioner Jessica Rosenworcel. Among exchanges, she conceded that she’s fine with the FCC moving forward with auctioning off some Rural Digital Opportunity Fund money in October, as scheduled, under the current maps (which Republicans contend correctly show entirely unserved areas). Her big objection is that the October auction would give out \$16 billion of the fund’s \$20.4 billion, which she thinks is far too great a share under current bogus data.

Remember: The FCC will also have to decide whether to dole out \$9 billion in separate 5G Fund subsidies under existing or revamped maps. GOP Commissioner Mike O’Rielly committed at last week’s reconfirmation hearing that he rejects doing the former. Given mapping qualms among the two FCC Democrats, that likely means Pai would be unable to advance those subsidies under current maps (an option he’s asserted would be faster). - Politico

5G: Flyers and posters that have been shared in updates are maintained on our website under

<https://stopsmartmetersbc.com/z/signs/>

5G: TURKEY: THE FIRST LAWSUIT AGAINST 5G TECHNOLOGY IN TURKEY HAS BEEN FILED IN ANTALYA

<https://ehtrust.org/the-first-lawsuit-against-5g-technology-in-turkey-has-been-filed-in-antalya/>

5G: The 5G con that could make you sick. – BBC – File on Four

June 24th, 2020 Guest Blog post by Angel Garden

The BBC aired their File on Four offering “the 5G Con that could make you sick” on Tuesday 16th June on Radio 4. File on Four is an “Award-winning current affairs documentary series investigating major issues at home and abroad”.

The programme featured well known go-to 5G proponent David Robert Grimes who, egged on by presenter Tom Wright, took a laboured and sneering tone of boredom throughout at having to repeat such basic facts.

This tone matched the context, in which Electro Hypersensitivity Sufferers (EHS) were presented as ‘dangerously’ believing that their symptoms are related to Electro Magnetic Frequencies (EMF). As the programme lumbered on, these unfortunates were eventually presented virtually as a virus in their own right, with the power to infect the world with this belief

<https://whatis5g.info/5g/2020/06/the-5g-con-that-could-make-you-sick-bbc-file-on-four/>

5G: <https://www.jrseco.com/european-union-5g-appeal-scientists-warn-of-potential-serious-health-effects-of-5g/>

5G NORWAY:

- a lot of people are concerned with the strength of the new 5 G-the. Are they stronger or not?

Norwegian authorities and government officials say so far that "the radiation from 5 G is not stronger than before". this is both concealing and direct error. The increase will be powerful. Here you get "hard facts" and numbers.

<https://einarflydal.com/2020/06/26/hvor-mye-kraftigere-straler-5g-senderne/>

TOWERS GRAND TETONS The Park Service is selling out to telecom giants

With Trump's blessing, cell towers are infiltrating protected public lands across the West. (more at link)

Some see these proposed cell towers and the better coverage they promise as a positive development that will assist search-and-rescue missions and improve access for an American public increasingly reliant on digital technologies. But others view the proposal as a serious threat. Stanford, the river guide, is among them. He relishes the remote corners of Grand Teton where his cellphone signal fades. He likes living close to "wild land" where Facebook, Twitter and Instagram hold little sway. There's something comforting, he says, about places that haven't been absorbed into the ever-expanding coverage maps of Verizon, AT&T and the other telecom conglomerates that control this country's wireless waves.

"We need to unplug, and we need places we can unplug, and if not here, where?" says Stanford, who also serves as a councilman in the nearby city of Jackson.

The telecom giants — AT&T, Verizon and more — are pushing to build out infrastructure on protected public lands across the country. These corporations hope to extend their reach into some of the most iconic and remote corners of the United States. And they have found a close collaborator in the federal government, which is working alongside industry operatives to open many national parks and other public lands to commercial wireless service. With a sprawling network of cell towers soon to be installed within its boundaries, Grand Teton National Park is a testing ground.

But political, economic and social circumstances are very different these days. In recent decades, the U.S. has witnessed the rise and consolidation of enormous media conglomerates like AT&T, Verizon and, just last year, a proposed \$26 billion merger between Sprint and T-Mobile. At the same time, smartphones and social media companies have revolutionized digital communications and created insatiable consumer demand for high-speed wireless coverage. Mobile data traffic has been on a rocket-fueled ascent. We increasingly depend on Big Tech and the telecom companies, using their devices and data for banking, shopping, navigation, transportation, work, socializing, even sex. And so, there is an ongoing bipartisan push to

expand broadband coverage into the corners of the nation where politicians and corporations alike perceive a higher demand, including many protected public lands.

The Trump administration, in concert with telecom lobbyists, has made the installation of new cellular and broadband infrastructure a priority. Among other things, President Donald Trump's Federal Communications Commission has limited the authority of local governments to stop such development. The administration is also working to "streamline" environmental reviews and speed up the permitting process that lets companies build telecom facilities on federal land. A 2018 Interior Department report stated the government's objectives explicitly: "By making it easier for private industry to co-locate or build out new broadband infrastructure on public lands, the (Department of the Interior) can play a strong role in increasing connectivity throughout the United States."

The impact of such policies is already apparent in many national parks. In Yosemite, agency officials have quietly sanctioned six new cell towers in recent years. In Sequoia, Verizon recently received permission to erect a 138-foot cell tower designed to look like a tree. At Mount Rainier, the big telecom providers are pushing for the construction of a wireless antenna atop a popular visitor center. At the Grand Canyon, the Park Service is proposing to permit as many as five new telecommunication towers along the canyon's rim. And in Yellowstone, proposed infrastructure improvements would "multiply the park's wireless capacity by 38 times," according to the Bozeman Daily Chronicle.

But no park better illustrates this trend than Grand Teton, where agency officials want to build a string of cell towers that will run most of the length of the 45-mile-long park. The proposed facilities will be confined to developed areas like Jenny Lake, Colter Bay and Flagg Ranch, but maps of the project show that broadband coverage will spill into significant swaths of the park's backcountry, including some of the most remote corners of the continental United States. If the plan comes to fruition, Stanford's clients will no longer have to struggle so hard to send emails or upload Instagram photos during voyages down the Snake River.

On the environmental front, telecom infrastructure can prove deadly for wildlife. In a 2014 letter, for instance, the Interior Department's own Office of Environmental Policy and Compliance cited studies showing that as many as 6.8 million birds may die every year in North America due to collisions with cell towers. The letter also referenced the harmful impact of radiation on birds nesting near cell tower sites: "Study results have documented nest and site abandonment, plumage deterioration, locomotion problems, reduced survivor ship and death," it reported.

A slew of prominent Silicon Valley insiders, meanwhile, have come forward to blow the whistle on Big Tech's inventions. In a book published in 2018, for instance, the internet pioneer Jaron Lanier denounced the pernicious political and psychological influence of major social media platforms, which he describes as "behavior modification empires" that intentionally addict, manipulate and spy on their users, all while spreading political misinformation, stoking economic insecurity, destroying local journalism, and providing our personal data to unseen third-parties. Lanier advises his readers to delete all social media accounts immediately.

Millennials, too, are chafing at the digital bonds of Big Tech and the telecom giants. In her new book, *How to Do Nothing: Resisting the Attention Economy*, Jenny Odell encourages people to fight "the invasive logic of commercial social media and its financial incentive to keep us in a profitable state of anxiety, envy and distraction." Odell sees non-commercial public spaces like parks and gardens as havens from the "permanent state of frenzy" that constant connection incites.

Harvard scholar Shoshana Zuboff's new book has a name for the economic system that has fueled the rise of smartphones, social media and tech behemoths: "surveillance capitalism," which she describes as a "new economic order that claims human experience as free raw

material for hidden commercial practices of extraction, prediction and sales.” With their dazzling digital services and profit-seeking snooping, Google, Facebook, Verizon and more draw us ever-deeper into their ecosystem of intrusive corporate surveillance, threatening our right to self-determination, privacy and “sanctuary,” she writes. And the emergence of 5G wireless, wearable devices, and the so-called “internet of things,” she argues, could soon allow these companies to create a world of nonstop behavioral monitoring, conditioning and control — “a world of no escape.”

“60% of Bureau of Indian Education schools lack access to adequate digital broadband.”

But right now it’s a world of no escape for some, and not for others: The telecom industry’s business model means that many low-income rural and tribal communities are completely shut out of adequate cellular and broadband coverage even as more populous places enjoy an abundance of service. In Indian Country, 63% of households on tribal land lack high-speed services, says Kevin Allis, the CEO of the National Congress of American Indians. “And even more painful is the fact that 60% of Bureau of Indian Education schools lack access to adequate digital broadband.”

The FCC estimates that at least 21 million Americans do not have broadband service. The vast majority live in rural communities, which often lack reliable cellular coverage, according to Lindsay Stern, a policy fellow at the advocacy group Public Knowledge. “Major carriers have a bottom line, and if they don’t get a return on investment, they often will not deploy in certain areas — and that is legal. They can decide where they want to deploy,” she says. “But broadband is an essential service of the 21st century, just like phones were an essential service of the 20th century. We need to treat broadband as an essential communications service, because that is the reality.” Currently, the FCC does not do this.

Still, even as policymakers and advocates labor to close the digital divide in rural and tribal communities, the federal government and telecom interests are committing their resources to new infrastructure in high-profile landscapes where very few people live full-time.

Some critics believe that industry and government don’t have their priorities straight — that their approach to broadband development is uneven and unfair. At the same time, some say that we should limit the telecom industry’s expansionary ambitions, especially on protected landscapes. Stanford, for example — a child of suburban New York who followed a friend to Wyoming in his early 20s and soon found a job working in outdoor recreation — says places like Grand Teton are easily degraded.

“So many people think of this area as so wild, they think there is so much wilderness and everything,” he told me. “Well, I walked the Teton Crest in the moonlight, nearly 20 years ago now, and what quickly becomes apparent is you can see the lights encroaching on either side — the lights of civilization — and you realize what a thin, fragile, precious strip Grand Teton National Park really is.”

Undeveloped landscapes “are besieged on all fronts,” he added later. Why “compromise” what remains with towers and cables and the seductive lure of smart devices?

<https://www.hcn.org/issues/52.3S/special-technology-the-park-service-is-selling-out-to-telecom-giants>

5G INDUSTRY: IEEE Committee: 5G Health Risk ‘Very Low’ Paul Kirby, TR Daily, June 25, 2020

The risks of adverse health effects from 5G technology are “very low, if they exist at all,” according to the IEEE Committee on Man and Radiation (COMAR).

“The advent of 5G technologies has been accompanied by a steady stream of media pieces expressing various opinions on 5G ranging from the ominous to the exculpatory. Given the background and commitment of its members, we feel a unique responsibility to provide an objective assessment of where 5G technologies stand with respect to health and safety issues,” the COMAR said in a statement published in “Health Physics.” “COMAR concludes that while we acknowledge gaps in the scientific literature, particularly for exposures at millimeter wave frequencies, the likelihood of yet unknown health hazards at exposure levels within current exposure limits is considered to be very low, if they exist at all.”

“First, unlike lower frequency fields, MMW do not penetrate beyond the outer skin layers and thus do not expose inner tissues to MMW,” the committee said. “Second, current research indicates that overall levels of exposure to RF are unlikely to be significantly altered by 5G, and exposure will continue to originate mostly from the ‘uplink’ signals from one’s own device (as they do now). Third, exposure levels in publicly accessible spaces will remain well below exposure limits established by international guideline and standard setting organizations, including ICNIRP [International Council on Non-Ionizing Radiation Protection] and IEEE. Finally, so long as exposures remain below established guidelines, the research results to date do not support a determination that adverse health effects are associated with RF exposures, including those from 5G systems. While it is acknowledged that the scientific literature on MMW biological effect research is more limited than that for lower frequencies, we also note that it is of mixed quality and stress that future research should use appropriate precautions to enhance validity. The authorship of this paper includes a physician/biologist, epidemiologist, engineers, and physical scientists working voluntarily and collaboratively on a consensus basis.”

“Is COMAR qualified to issue an ‘expert statement’ regarding health effects?” asked Joel Moskowitz, director of the Center for Family and Community Health in the University of California at Berkeley’s School of Public Health and creator of the saferemr.com website, in response to the COMAR statement. “By my count, the membership of COMAR consists of nineteen engineers, four physicists, two physiologists, one psychologist, and one M.D. Almost all of COMAR's members work for industry or rely on industry funding for their research. How many members of COMAR have published peer-reviewed research on the health effects of non-ionizing radiation? How many do not have conflicts of interest?”

5G INDUSTRY:

Police Find 2 Men Dead at Base of AT&T Cell Tower in Florida

Police say the bodies of two men were found in a building at the base of a cellphone tower in Jacksonville.

<https://www.usnews.com/news/best-states/florida/articles/2020-06-18/police-find-2-men-dead-at-base-of-at-t-cell-tower-in-florida>

AND:

UPDATE: June 22, 2020 – The two cell site workers that were shot to death have been identified. They were found by the mother of a co-owner of the logistics company that was killed. Additional information is available here.

The bodies of two electricians were found early this morning inside an AT&T equipment shelter at a monopole site in Jacksonville, Florida, Jacksonville Sheriff's Sgt. Steve Rudlaff of the homicide division said in a press briefing this morning.

Two electricians were shot to death while working inside an AT&T shelter located on a Crown Castle-owned site. The monopole is located at a busy intersection near a Family Dollar Store

Two electricians were shot to death while working inside an AT&T shelter located on a Crown Castle-owned site. The monopole is located at a busy intersection opposite a Family Dollar store where an armed robbery occurred on Tuesday.

The men, according to authorities, were shot multiple times and investigators have initially ruled out that it was "combat against each other".

They are currently looking at the possibility of a robbery or other reasons why the men were killed at the Crown Castle 100-foot tower site located off of Firestone Rd. just west of I-295.

The electricians, both white and between 30 to 40 years old, were found by a co-worker and were declared dead by Jacksonville Fire Department paramedics.

The names of the workers and their employer are not being released at this time, a Sheriff's spokesperson said this afternoon.

The men were providing an electrical upgrade, which included installation of new batteries for AT&T, an individual knowledgeable of the incident informed Wireless Estimator.

They reportedly arrived on site at 10 p.m. Wednesday night and were shot to death early this morning.

Officers responded to the site about 6 a.m. after receiving a 911 call about two unresponsive men in the building. The compound's gate was open and the electricians' truck, a Penske rental vehicle, was backed up to the equipment shelter.

The site is in a relatively safe area of Jacksonville, neighbors say, but according to a number of social media posts of tower techs who have worked on that site or in the area, it's not.

On Tuesday, according to public records reviewed by Wireless Estimator, there was an armed robbery at 7 p.m. opposite the tower site at a Family Dollar store. It is not known if the two incidents are related, but authorities will be investigating whether they are and if there are any surveillance cameras at Family Dollar or in the Crown Castle compound.

Wireless Estimator will provide additional information as soon as it becomes available.

Anyone with information on the shooting can contact the Sheriff's Office at (904) 630-0500 or leave an anonymous tip and be eligible for a possible reward by calling First Coast Crime Stoppers at (866) 845-8477 (TIPS).

<http://wirelessestimator.com/articles/2020/double-homicide-cell-site-victims-identified-deceased-company-owners-partner-puts-up-a-5000-reward/>

Apple ‘App Clips’ Are Its Secret On-Ramp to 5G

<https://medium.com/pcmag-access/apple-app-clips-are-its-secret-on-ramp-to-5g-3f04326ac7a8>

5G: Planning for 5G wireless densification for the smart city

<https://urgentcomm.com/2020/06/25/planning-for-5g-wireless-densification-for-the-smart-city/>

5G: White House Considers Broad Federal Intervention to Secure 5G Future

Trump administration officials have talked about inserting the federal government deep into the private sector to stiffen global competition against Chinese telecom giant Huawei. The ideas -- discussed intermittently with US tech giants, private-equity firms, and veteran telecom executives -- include prodding large US technology companies like Cisco to acquire European companies Ericsson or Nokia. In more than one case, the company wasn't interested in buying into low-margin businesses. Policymakers have also discussed shoring up Ericsson and Nokia with tax breaks and export-bank financing, or supporting a private-equity group that would take one of the European equipment makers private. Other proposals would support "open" network technology that would make it easier for U.S. startups to develop new technology for 5G equipment. The ideas show how far the US is willing to go in its fight with China over who will supply the world with advanced technologies

<https://www.benton.org/headlines/white-house-considers-broad-federal-intervention-secure-5g-future>

5G: Italy's 5G stumbles after a shining start By Agence France-Presse

Rome – Italy's 5G project, launched to great fanfare in October 2018 with frequencies going for top dollar at auction, has since fallen victim to sky-high costs and red tape.

The next generation wireless network technology will not only be faster and capable of handling more connected devices than the existing 4G, it's expected to fuel development of new technologies for consumers, businesses and defence alike.

Keen to take advantage, Italy held auctions at the end of 2018 — two years before neighbour France — and raised over 6.55 billion euros (\$7.3 billion) — far above the minimum 2.17 billion euros Paris is hoping to bring in this autumn.

"The culture of mobile telecommunications in Italy has always been ahead of its time. The peninsula was the first country in the world to launch 3G," Andrea Rangone, a professor at the Polytechnic business school in Milan, told AFP.

Italy raised €6.55 billion when it held a 5G auction at the end of 2018. Photo: Laurent Emmanuel / AFP

DOWNLOAD

But the high prices paid for frequencies, coupled with Italy's slow bureaucracy, are proving a headache for operators.

The auctions have led to "much higher costs for companies than in other countries", and "a sharp drop in profitability," said Enrico Barsotti, number two at mobile operator WindTre.

– Permit problems –

“Investing in Italy is very difficult: the limits on electromagnetic emissions are among the strictest in the world, and there is no certainty about time frames because of bureaucracy,” he said.

Getting the necessary permits “depends on rules that vary from one region to another, or even from one municipality to another,” Barsotti said.

The 5G revolution

Fastweb, a broadband operator that has partnered with WindTre for 5G, also told AFP the authorisation process was “likely to slow down the deployment of 5G networks considerably”.

Frustrated operators also fear damage from another quarter: fake news.

They have urged the government to tackle reports 5G could be dangerous for customers, with Fastweb pointing out “the frequencies used are exactly the same as those used over the past 20 years for other mobile technologies”.

These issues have not stopped operators from commercially launching 5G with dedicated subscriptions.

The development of wireless mobile networks

Telecom Italia (TIM) is already offering 5G in nine cities, including Rome, Turin, Florence and Naples, and will do so “soon” in other cities like Milan.

The aim is “to cover the entire population by 2025/2026,” it said.

– Pick up in 2021

Digital Transformation expert Gianni Ferranti said “there could be a resumption of 5G development in 2021, if the government maintains tax incentives for companies investing in digitisation and automation, and if the average prices of mobile phones capable of connecting in 5G fall”.

A row over whether Chinese telecom giant Huawei, the world’s largest supplier of telecom network equipment, could pose a risk to 5G security in the West has been largely absent in Italy.

In January, fears over the safety of the 5G technology sparked demonstrations in Turin. Photo: Marco Bertorello / AFP

“Italy has tried to remain as neutral as possible,” professor Rangone said.

Rome nevertheless decided in 2019 to exercise its “special powers” to verify trade agreements entered into by operators, in order to “protect national security”.

TIM said for its part it had “adopted a policy of having a diversity of suppliers, so as not to be dependent on any one company in particular” — a common policy among operators.

by Ljubomir Milasin and Celine Cornu

#wireless, 5G, Italy, technology, telecom, telecommunications, wireless networks

<https://www.ednh.news/italys-5g-stumbles-after-a-shining-start/>

5G: Vodafone UK lands Ford private 5G network gig

5G seems to be finally entering its useful phase as Ford UK is the latest to buy into private networks for smart factories.

A 5G mobile private network will be installed this year by Vodafone Business in Ford's new E:PriME (Electrified Powertrain in Manufacturing Engineering) facility Dunton, Essex. It promises all the usual smart factory, industry 4. Stuff with thousands of sentient robots and widgets, all connected to the central hive mind, industriously scurrying about the place, making bits of car.

"Connecting today's shop floor requires significant time and investment," said Chris White, Ford's 5GEM project lead. "Present technology can be the limiting factor in reconfiguring and deploying next-gen manufacturing systems. 5G presents the opportunity to transform the speed of launch and flexibility of present manufacturing facilities, moving us towards tomorrow's plants connected to remote expert support and artificial intelligence."

<https://telecoms.com/505210/vodafone-uk-lands-ford-private-5g-network-gig/>

5G: Verizon trials Pivotal's 5G network repeaters in Michigan

<https://www.fiercewireless.com/operators/verizon-trials-pivotal-s-5g-network-repeaters-michigan>

5G: Verizon accelerates 5G network deployment

<https://www.verizon.com/about/news/verizon-accelerates-5g-network-deployment>

5G:

OTHER TELECOM INDUSTRY: What Chairman Pai is Telling Congress About the End of the Keep Americans Connected Pledge

Of note, providers have only paused collections on customers because of their economic circumstances related to the coronavirus pandemic. As of this writing, those bills have not been forgiven.

Legislation On The Horizon?

On June 18, Chairman Wicker and House Commerce Committee Ranking Member Greg Walden (R-OR) released their principles for a legislative framework to expand broadband access and digital opportunity and close the digital divide. Their framework calls for Congress to help close the digital divide by establishing programs so that anyone experiencing economic

hardship as a result of the COVID pandemic remains connected and knows what resources are available. **However, when Walden followed up with a legislative package of 26 bills aimed at closing the divide, none seemed to address helping people experiencing economic distress. Wicker offered his own bill, the Accelerating Broadband Connectivity (ABC) Act, which aims to accelerate rural broadband deployment, but not help low-income households.**

In the House this week, Democrats, led by Majority Whip James E. Clyburn (D-SC) and members of the House Rural Broadband Task Force, offered legislation that would provide a \$50 monthly discount on home broadband plans for low-income consumers and require an affordable option for internet service plans offered on the newly-built infrastructure. The Accessible, Affordable Internet for All Act (HR 7302) is expected to be included in more comprehensive infrastructure legislation, the Moving Forward Act, which could be voted on as soon as next week.

During the pandemic, as many as 25 million people have collected state unemployment insurance. If we're all to keep connected, now is the time to act.

<https://www.benton.org/blog/what-chairman-pai-telling-congress-about-end-keep-americans-connected-pledge>

OTHER INDUSTRY: Telecom Italia becomes latest to cash in on tower popularity

Telecom Italia (TIM) has announced it has sold stakes in mobile tower group INWIT to French private equity firm Ardian and Canson Capital Partners, collecting €1.6 billion in the process.

The divestment of stakes in passive infrastructure companies has become a popular strategy for telecoms operators to raise much needed funds, but questions still remain about the logic. Telecoms operators are increasingly becoming tenants on passive telecoms infrastructure, though the drive towards 5G deployment and full-fibre broadband upgrades is forcing some to make difficult decisions.

As part of this deal, TIM will create a new holding company to move a 30.2% INWIT stake to, before selling 49% of the holding company to Ardian. 3% of the INWIT stake will also be sold to Canson Capital Partners. Prior to these agreements, TIM owned 33.2% of INWIT.

<https://telecoms.com/505205/telecom-italia-becomes-latest-to-cash-in-on-tower-popularity/>

OTHER INDUSTRY: Lenovo Launches Internet of Things Solutions To Make The Workplace Safer During COVID-19

Lenovo outlines a three-step framework with technology at its core to help make spaces safer and to accelerate business transformation for the long term.

- 1) Controlling who gets into the location
- 2) Managing behaviors within the space; and
- 3) Preparing to respond to incidents

ThinkIoT Back to Work Solutions support this three-step framework with a set of end-to-end, pre-tested and validated IoT solutions incorporating carefully selected and proven hardware and software partners, including CXApp, Inpixon, L Squared, Openpath, Relogix, and Viper Imaging. These solutions help make workplaces safer as employees progress through the building:

Touchless Building Access: Modern access control that allows touchless access, phone-based authentication, easy cloud management, and integrations with legacy access control systems and IoT solutions. (Openpath)

Elevated Temperature Screening: Thermal screening solutions using U.S. Food and Drug Administration cleared thermal cameras to identify elevated body temperature in individuals as they go through access points. (Viper Imaging)

Digital Signage and Policy Communication: Integrated digital communication and content management solution to effectively communicate policies and information to your workforce. (L Squared)

Safe Workspace Monitoring: Office occupancy monitoring solution with granularity to a seat level to comply with social distancing protocols and identify workspace utilization for target cleaning. (Relogix)

On-Premise Contact Tracing: Employee and visitor tracing using existing Wi-Fi network to monitor workspace zone health and enable a focused response in the event of an incident. (Inpixon)

“For the past decade IoT solutions have promised great results but haven’t delivered,” said John Gordon, Lenovo’s President, Commercial Internet of Things.

<https://iotbusinessnews.com/2020/06/24/83500-lenovo-launches-internet-of-things-solutions-to-make-the-workplace-safer-during-covid-19/>

OTHER TELECOM: Pandemic Reveals Need to Make Airwaves More Resilient

The spectrum's sweet spot—frequencies in the mid-range—can carry significant amounts of data while reaching many users but are reserved for the government.

The pandemic has put the spotlight on the challenges facing the nation’s wireless communications infrastructure. As patients and doctors use telemedicine; children and teachers use distance learning; and parents telework from home, our spectrum resources are being stretched to the limit.

To understand the electromagnetic spectrum, think real estate. Except for a few volcanoes pumping lava into the ocean, there’s a fixed amount of land in the world. The same is true for the airwaves or wireless communication channels, the more common names for the spectrum.

Back in 1901, when Guglielmo Marconi was experimenting with the transmission of Morse code, he had the entire spectrum to himself. Now, the spectrum is a limited resource. We’re not “using it up,” per se, but we can’t make more of it. And while 5G mobile broadband offers many benefits by carrying more data, it can also strain that resource. Even in normal times, we rely upon the spectrum to carry vast amounts of data for so many aspects of our lives. Autonomous cars, cell phones and tablets, television and radio, GPS and our national defense all need wireless access.

Just as all land is not valued the same, spectrum also has a sweet spot—frequencies in the mid-range that can carry significant amounts of data while reaching many users. For decades, the government has reserved many of those mid-band channels for military, aviation and other national security missions.

New technologies now enable more use of mid-band spectrum for other industries, and commercial companies are demanding access. Yet that spectrum is also needed for the safety of our nation, so the government can respond in a national security crisis or an emergency like this pandemic, for example.

The solution? If we can't create more spectrum, we must use it more efficiently.

<https://www.nextgov.com/ideas/2020/06/pandemic-reveals-need-make-airwaves-more-resilient/166329/>

OTHER TELECOM: Does the Federal Broadband Definition Reflect Real-World Need?

In 2015, the Federal Communications Commission changed the definition of broadband in response to growing Internet demands. Experts differ on whether the COVID-19 crisis calls for another definition change in 2020.

The current definition, 25 Mbps download speed/3 Mbps upload speed, was set by the Federal Communications Commission, led by former FCC Chairman Tom Wheeler, in 2015. In an official statement, Wheeler noted that the previous standard, 4 Mbps/1 Mbps, had been established in 2010 and that “consumer behavior and the marketplace has changed.”

Freddoso said the 3 Mbps upload part of the definition seems especially behind the times, now that households are more likely to have multiple instances of two-way communication occurring at the same time.

Scott Wallsten, president and senior fellow at the Technology Policy Institute, studies what consumers are willing to pay for when it comes to broadband. He said whether someone needs service to surpass the 25/3 threshold remains an open question based on the individual. **Wallsten's research shows that consumers are generally willing to pay for a download speed of 50 Mbps. Beyond that, the willingness to pay decreases.**

Internet speed isn't the only thing that consumers care about when it comes to broadband, Wallsten said. Competitive gaming, for example, requires lower latency, so gamers may put more emphasis on lower latency than on higher speeds.

Although the 25/3 definition might be “increasingly irrelevant” because of how people value Internet service in different ways, Wallsten said **the FCC was right when it decided to prioritize both higher speed and lower latency for the upcoming Rural Digital Opportunity Fund auction.**

Jonathan Chambers, a partner with Conexon, said the 25/3 definition represented what “the telephone industry told the federal government it was capable of delivering with digital subscriber line.”

Similar to Wallsten, Chambers doesn't view broadband as a one-dimensional term that only involves speed.

Chambers described the 25/3 threshold as more of a “negative definition,” given that technology, such as a fiber-optic network, can offer far greater speeds. He said 25/3 is too low of a bar for spending tax dollars.

“It’s a bad choice for the government to keep buying substandard service,” Chambers said. “It’s the reason why rural America was unprepared for the COVID-19 crisis.”

Will Rinehart, senior fellow at the Center for Growth and Opportunity at Utah State University, doesn’t anticipate the FCC under the Trump administration to change the definition. However, he would predict pushback from some members of the broadband industry if the FCC proposed to increase the speed requirements.

In particular, if a new definition involved symmetrical download and upload speeds, it could raise complaints about a lack of tech neutrality, as **fiber systems tend to be the most adept at providing symmetrical speeds.**

“I think it would become an interesting and somewhat big fight,” Rinehold said.

<https://www.govtech.com/network/Does-the-Federal-Broadband-Definition-Reflect-Real-World-Need.html>

OTHER TELECOM: Starry Partners with the Housing Authority of the City of Los Angeles to Expand Affordable Broadband Access (it is wireless)

Starry, a wideband hybrid fiber wireless internet service provider, is partnering with the Housing Authority of the City of Los Angeles (HACLA) to expand affordable broadband access to more than 600 households in Los Angeles’ Del Rey neighborhood. The expansion, part of the Starry Connect initiative, is a specialized low-cost broadband access program that partners with owners of public and affordable housing to make high-quality, uncapped, true broadband access available to residents for **only \$15 per month. Starry Connect provides 30 mbps symmetrical speeds, all in-home Wi-Fi equipment and installation, and personalized customer care** to all its subscribers without requiring a longterm contract, pre-qualification, credit checks, or other complex eligibility criteria that are common requirements of other affordable access plans.

<https://www.benton.org/headlines/starry-partners-housing-authority-city-los-angeles-expand-affordable-broadband-access>

OTHER TELECOM: US sulks over UK Huawei campus decision

<https://telecoms.com/505232/us-sulks-over-uk-huawei-campus-decision/>

OTHER TELECOM: AT&T To Lay Off Thousands While Giving Its Departing CEO \$274,000 A Month For Life

<http://labor411.org/411-blog/att-to-lay-off-thousands-while-its-ceo-will-receive-274000-a-month-for-life-after-he-leaves-next-month/>

OTHER TELECOM: US government prepares for further action against Chinese companies

Leaked this week was a list of 20 companies which the US Department of Defense believes has material ties to the Chinese Government and the military. These 20 companies are effectively the ones the US Government needs to be aware of, organisations which operate on US soil and have been deemed a potential threat to national security. As one would expect, Huawei is one.

While the US has been applying pressure to allied nations already, this has been little more than nudges in the right direction and (to date) baseless threats. The UK and Germany, for example, have been told a security intelligence data embargo could be imposed should Huawei be present in the networks, a promise which is yet to be fulfilled.

This is a long shot. Withholding information from allies would only see the same done in return, and intelligence data is at its most valuable when it is augmented with insight from other nations. In withholding information from allies, the US would be harming its own interests, but this is not out of the question. The US seems happy to tolerate collateral damage, an example is the harm done to US companies when Huawei was first placed on the Entity List.

This is only one route the US could take, as we suspect there are plenty of bureaucratic complications which could be thrown in front of Huawei, private telecoms companies or national governments in pursuit of its ultimate goal.

The creation of this list, and Huawei's inclusion, means little on its own, but the next steps over the coming weeks could certainly add more complications to a telecoms industry which is suffering through political and egotistical tension.

<https://telecoms.com/505218/us-government-prepares-for-further-action-against-chinese-companies/>

OTHER TELECOM; The Coronavirus Laid Bare Our Empty Lip Service To Fixing The 'Digital Divide'

In the wake of COVID-19 quarantines, more attention than ever has been given to the fact that upwards of 41 million Americans (double official FCC estimates) still can't get any type of broadband despite thirty years of subsidization and lip service toward fixing the nation's "digital divide." Millions more can't afford service because feckless regulators and limited competition work in concert to ensure U.S. broadband prices remain some of the highest in the developed world. This was always a problem. It's just more obvious now that citizens in countless COVID-19 hotspots are forced to actually pay attention to it.

While there's a universe of folks paid by the sector to pretend this is all fantasy or hyperbole, at the heart of the problem remains captured regulators who can't be bothered to hold bad actors accountable or adequately map where US broadband is or isn't available. The Reveal has a good piece talking to policy experts who, (once again with feeling) note that the core of the problem is bad FCC leadership and bad data. As in, we literally do not know where broadband is available in the United States or at what speeds and price points it's offered. We pretend we do, but we simply don't.

The last time the FCC handed out money to build internet infrastructure, in 2015, Frontier Communications and CenturyLink, two of the country's largest internet service providers, collectively won grants worth \$3.2 billion over the next four years – more than \$800 million a year between them and more than a third of the program's \$9 billion total.

In January, CenturyLink wrote to the FCC to say it was failing to meet a deadline for deploying networks in 23 of the 33 states in which it was working. In April, having also failed to meet deadlines and facing mountains of debt, Frontier Communications declared bankruptcy."

Instead of ramping up competitive policies and accountability for a broken market, the FCC, sans any legitimate evidence, decided to obliterate FCC authority over telecom at lobbyist behest. And while we have seen some efforts to improve broadband mapping of via the Broadband Data Act (which encourages more verification of data by the FCC and the integration of more crowdsourced and detailed data), any actual improvement remains many years and many more millions away from fruition. While the wireless industry is already hard at work trying to ensure that 5G networks are exempt from many of these improvements.

There's an entire cottage industry of telecom-linked experts whose entire mission is to assure you that none of this is actually happening, or if it is happening, it's only because the United States is so gosh darned big. The reality, however, is quite simple: US broadband is patchy, expensive, uncompetitive, and mediocre because the telecom industry lobbies weak-kneed regulators and lawmakers to keep it that way. It's a truth we go to great, comical lengths to deny, because whether it's unaccountable subsidies, monopoly rents, or campaign contributions, it's simply far more profitable to deny it.

https://www.techdirt.com/articles/20200622/08400444758/coronavirus-laid-bare-our-empty-lip-service-to-fixing-digital-divide.shtml?utm_source=sendgrid&utm_medium=email&utm_campaign=Newsletters

HEALTH: <https://www.5gcrisis.com/post/canadian-experts-call-for-halt-to-5g-due-to-health-issues>

HEALTH: Indoor air pollution and heavy metals linked to child obesity (NO RF but I question how much indoor time is linked to screens?)

An international study finds that where a child lives and what they breathe may play an important role in their weight gain.

The new study attempts to piece together the exposomes of children across six countries in Europe, and identify environmental factors associated with an increased risk of obesity. The HELIX (Human Early-Life Exposome) project assembled 1,300 children between the ages of 6 and 11, and their mothers, from long-term population studies in France, Greece, Lithuania, Norway, Spain, and the U.K. Nearly a third of the children in the cohort were overweight or obese.

Among the environmental exposures they compiled were road traffic noise, access to green space, UV radiation, and chemicals used in pesticides and water disinfectants.

Twenty-seven of the 96 childhood exposures the researchers tested for turned out to have positive associations with obesity. Backing up decades of evidence, the researchers observed that children whose mothers smoked during pregnancy had increased rates of obesity. While chemicals commonly used in pesticides weren't implicated in weight gain, indoor pollutants like particulate matter and nitrogen dioxide were. These can arise from household heating, secondhand smoke, and car exhaust. Unlike many adverse environmental exposures, which disproportionately afflict low-income families, indoor exposure to nitrogen dioxide was a heightened factor in obesity among children in high-income households.

With the COVID-19 crisis keeping children cooped up at home, such indoor "obesogens" —chemical compounds that are linked to obesity—are even more important to investigate.

<https://www.ehn.org/air-pollution-and-obesity-2646254033.html>

STUDY: <https://ehp.niehs.nih.gov/doi/full/10.1289/EHP5975>

Environmental Exposures

We included 77 environmental exposures assessed during pregnancy and 96 exposures assessed during childhood at age 6–11 y (Table 1). The exposures were selected at the start of the HELIX project, because they were of concern for more than one of the health outcomes

under study and because population exposure was widespread (Vrijheid et al. 2014). Some exposure variables available in the project (Tamayo-Uria et al. 2019) were not included in the current analysis for the following reasons: a) They had <30 subjects in one exposure category without possibility to recode [this was the case for diethyl dithiophosphate (DEDTP) in pregnancy and childhood, and dimethyl dithiophosphate (DMDTP) in pregnancy]. b) They had a correlation of 0.9 or higher with another similar variable of the same exposure group, in which case we selected one exposure variable representative for the group or a sum variable as described below under the specific exposures. c) They were calculated for several exposure time windows, in which case we included only the longest exposure window (e.g., pregnancy average instead of trimester averages).

HEALTH: Blue light

<https://electronics360.globalspec.com/article/15303/scientists-isolate-narrow-band-of-blue-light-that-disrupts-circadian-rhythms>

<https://journals.sagepub.com/doi/full/10.1177/0748730420923164>

HEALTH: OT: Bayer-Monsanto Agrees to \$10B Settlement With Victims Poisoned by Roundup Weedkiller

<https://www.commondreams.org/newswire/2020/06/24/bayer-monsanto-agrees-10b-settlement-victims-poisoned-roundup-weedkiller>

HEALTH: 1984 EPA Report Reveals Major Health Hazards from Exposure to Cell Phone and WiFi Radiation

<https://www.activistpost.com/2020/06/1984-epa-report-reveals-major-health-hazards-exposure-to-cell-phone-and-wifi-radiation.html>

HEALTH: UPDATE DR. STILLMAN What have I been up to in the last month? - Minerals

I've been learning about mineral balance. It turns out that the balance of minerals within our mitochondria can make or break our aging. What does this have to do with current events?

Minerals "run the show" as one of my mentors recently told me. This is why my social media posts in May and June were all about two of the most important minerals - iron and magnesium. These two antagonize and help to control one another. Everyone should watch Morley Robbins's video, "My Theory of Everything." He packs an enormous amount of research into this video. Obviously, I don't think minerals are all that matter to health, but over the last several months I have carefully been vetting Morley's ideas. His ideas hold tremendous value for many people who are struggling to achieve optimal health.

What are minerals? They are the most fundamental elements of matter. Without minerals, life falls apart. A mineral is to an enzyme what a drill bit is to a drill. Without the drill bit, it doesn't

matter what shape the drill is in - it won't work. But the drill bit has to be loaded in the drill properly as well. If an enzyme is damaged, the minerals come out. The enzyme falls apart.

Most doctors test levels of minerals - not the function of enzymes. When I was in college, my chemistry professor told me that long ago, we thought just ten percent of enzymes used minerals. Several decades later, when I was in college, that number had been revised upward to 50 or 60%. What do you think it will be in a few more decades?

Minerals don't just randomly find their ways into enzymes. What can disrupt this process? Oxidative stress is the short answer. And what is the main source of oxidative stress in living systems? Heavy metals - and not just mercury, lead, cadmium, and other toxic metals. Copper and iron are minerals that are critical to life on planet earth that can also produce free radicals and oxidative stress.

The body creates many proteins to bind up metals, to prevent them from creating oxidative stress. And if the body doesn't succeed in soaking up these minerals, those minerals create metabolic mayhem. It is not enough to test levels of minerals - they must be interpreted in your context.

The premise of Morley's work is actually quite simple. He asked, "How has American soil and therefore American food changed in the last several decades, to create our epidemics of modern diseases?"

We stopped eating fat-soluble vitamin A and vitamin D. These vitamins work together in nature and almost always occur together in foods. Both of these are photoactive compounds. Vitamin A is metabolized and transformed by light, while vitamin D is created by UV-B light in the skin. Significant sources of copper were removed from our diet, specifically beef liver, fish, shellfish, and fresh fruits and vegetables. In nature, vitamins always co-occur with minerals. Do you think that is a coincidence? You cannot just take supplements and expect them to make up for a lousy diet. The more we reduce nature, the more we reduce our own health. This is why my supplement recommendations have moved to more and more whole foods, rather than artificial supplements.

Why am I writing about this topic now? It isn't just that it's what I find on my desk.

What happens when you microwave a steak? It heats up. What happens when you microwave a fork? It explodes. Microwave radiation disrupts water-bonding networks in living systems, which is how they fundamentally create disease. But this is not all that they do. This stress results in a disruption of mineral balance. All of the effects of EMF are intertwined with minerals. If you want to be ready for 5G, the best place to start might be your mineral balance.

This is why I have been dumping iron. I've been recommending this to more and more patients, because I keep finding elevated ferritin levels. An elevated ferritin means iron overload. What's an optimal ferritin level? As close to zero as possible.

Morley has the best information on minerals of anyone I know. His trainees know more about minerals and health than many of the functional/holistic/alternative/wellness/anti-aging/longevity medicine gurus out there. If you want to learn more, purchase and watch his Root Cause Protocol 101 video series.

What can you do to optimize your mineral status? I am accepting new patients, but my schedule is filling up quickly. As you can imagine, the demand for good medicine has only gone up in recent months. You can apply to work with me here.

What about protests and civil unrest?

If you asked me to create an epidemic of mental illness, I would start by depleting the populace of magnesium and potassium, while wrecking their metalloenzymes that rely on copper, selenium, manganese, molybdenum, and zinc. I would load them up with iron and create a myth that they're all "iron deficient." I would top it off with non-native EMF and blue-lit screens. Today's conflicts are being manufactured by those who would rather we fight each other, than realize just how society's elites are oppressing all of us. This is a classic "divide and conquer" strategy. Do not get fooled into aggressing from either side. The name of the game is still, "focus on the man behind the curtain."

<https://mailchi.mp/0e25d12f88d7/stillmanmd-june-2020?e=27238a9884>

Reminder" Dr Stillman is one of my favorite on-line educators re: EMF's

Blue Light, Melatonin, and Allergies

3 minute video

<https://www.youtube.com/watch?v=usdGXW108n8>

AND

Do cell phones cause brain cancer?

16 minute video

<https://www.youtube.com/watch?v=bD2Ns5SQKHg>

HEALTH: So you really cannot cite the American Cancer Society. (courtesy theodora)

<https://www.cancer.org/.../radi.../radiofrequency-radiation.html>

HEALTH: Evaluation of Inflammation by Cytokine Production Following Combined Exposure to Ultraviolet and Radiofrequency Radiation of Mobile Phones on 3D Reconstructed Human Skin In Vitro

Picardie Jules Verne University, 80025 Amiens, France

Abstract

The absorption of exposure to radiofrequency (RF) emitted by wireless devices leads to a high specific absorption rate in the skin. Ultraviolet (UV) radiation can induce several damages to the skin. The aim of this study was to examine whether combined, consecutive exposure to solar UV radiation and 1950 MHz RF exposure of third generation (3G) mobile system have any effect on inflammation processes in the skin. Under in vitro experiments, the inflammation process was examined by cytokines (IL-1 α , IL-6, and IL-8) and MMP-1 enzyme secretion on 3D full thickness human skin model. The RF exposure was applied before or after UV irradiation, in order to study either the possible cooperative or protective effects of exposure to RF and UV. We did not find changes in cytokines due to exposure to RF alone. The RF exposure did not

enhance the effects of UV radiation. There was a statistically not-significant decrease in cytokines when the skin tissues were pre-exposed to RF before being exposed to 4 standard erythral dose (SED) UV compared to UV exposure alone. We found that RF exposure reduced the previously UV-treated MMP-1 enzyme concentration. This study might support the evaluation of the effects on the skin exposed to microwave radiation of 5G mobile technology

https://www.mdpi.com/1660-4601/17/12/4401?fbclid=IwAR2B_5ZfD2EtTQLxt_QyjfU2UIVaudcNLYJG_Us1g60U418JJCRVm6vcYHw

HEALTH: Can We Trust An FDA Approved, DARPA Funded, Under-the-Skin Biosensor to Detect Signs of Illness?

<https://www.activistpost.com/2020/06/can-we-trust-an-fda-approved-darpa-funded-under-the-skin-biosensor-to-detect-illness.html>

HEALTH: "They" Said It Was Safe. The History of Environmental Pollutants

1 MINUTE VIDEO

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

HEALTH ITALY EXPERT LETTER/APPEAL EMF

: Appeal for electromagnetic safety - Amica, 22nd June 2020 Open letter from committees, associations and experts for the protection of health and the environment and the biological effects of electromagnetic fields

Rome, June 15, 2020

To the President of the Italian Republic

To the President of the Senate

To the President of the Chamber

To the Deputies and Senators of the Italian Parliament

To the President of the Council of Ministers

To the Minister of Health

To the Minister of the Environment and of the Protection of the Territory and the Sea

To the Presidents of the Regions

Article (in Italian):

Illustrious,

regarding the Colao Commission proposal to promote the development of 5G networks and raise the legal limits for radio frequency, we are writing to inform you of the scientific evidence on the subject that make this initiative irrational and harmful to health and environment.

In 2011, radio frequency was classified by the International Agency for Research on Cancer (IARC) as a "possible human carcinogen" in Class 2B. Despite strong epidemiological evidence, the IARC did not choose a more stringent classification because animal studies were lacking. In 2018, however, two authoritative institutes, the National Toxicology Program (NTP) of the United States and the Ramazzini Institute of Bologna, published two large studies on rats and mice exposed to radio frequency, respectively of the cell phone (in the near field) and of the repeaters (in the far field), finding the increase of the same types of tumor and thus strengthening the evidence of the carcinogenic risk. [1] , [2] In addition, two European studies from 2014 conclude that radio frequency should be classified as a "certain carcinogen for humans" in Class 1 and that the effects of radio frequency exposure are cumulative. [3] , [4]

The carcinogenic effect of radio frequency represents only the macroscopic aspect of the risk, but the scientific literature has highlighted many other effects:

on the hormonal system, including an increased risk of diabetes,

on metabolic functions with an increase in oxidative stress,

on the nervous system, including the risk of neurodegenerative diseases,

on fertility,

on the immune system,

on the genome and epigenome with health effects on subsequent generations, as seen, for example, with the increased risk of leukemia in the children of military personnel assigned to radar.

The literature that demonstrates health risks of radio frequencies far below the current international safety standards is vast; Unfortunately, experts from public health agencies seem to select only the one that shows no effects. After all, WHO has always relied on the risk assessments of ICNIRP, a private association based in Munich which, despite being independent, has strong links with the telecommunications industry and cannot be considered as all reliable. This was clarified as early as 2011 by the report of MEP Jean Huss which led to Resolution No. 1815 of the Plenary Assembly of the Council of Europe (PACE), [5] and more recently by the judgment of the Court of Cassation of the Court of Turin registered in n. 721/2017 RGL on the case of a worker damaged by the intensive use of the mobile phone.

Several groups of independent scientists have determined that in order to protect public health, safety values must be lowered immediately to 0.6 V / m . [6] , [7] , [8] , [9] , [10] , [11] , [12] , [13]

International standards are obsolete because they are based exclusively on the thermal effects of electromagnetic fields, i.e. on the heating produced, while it has been widely demonstrated that weak electromagnetic fields, unable to produce any heating, cause numerous biological effects. The living matter, in fact, works through chemical exchanges and electromagnetic

signals that can undergo alterations in the presence of even very weak external electromagnetic fields.

5G involves additional public health problems and an environmental risk because:

radiation adds to those already in use by current telephony and the synergistic biological effects of all these different radiations are not known;

uses millimeter waves which, although less penetrating, have specific biological characteristics that target the skin and the endings of the peripheral nervous system;

uses a beam forming system that involves radiation directed towards the user, which will be hit simultaneously by several beams, a condition not foreseen by the current legal limits which are set to assess environmental radiation and not the impact on the individual user (Switzerland has authorized the use of 5G, but has prohibited beam forming precisely because it is impossible to measure radiation on the individual user and ascertain that the current legal limits are not exceeded).

For all these reasons hundreds of Italian Municipalities and the Marche Region have approved the ban on the installation of 5G antennas in application of the precautionary principle.

2010 scientific research on the application of the precautionary principle , [14]investigating the issue of electromagnetic fields and other phenomena, he concluded that "Scientists from the World Health Organization and the European Commission do not rely on the precautionary principle when drawing up a report on health risks" essentially because they rely only on certainty of risk, instead of taking into consideration evidence of a possible risk, which is what should be done to observe the precautionary principle. This principle is enshrined in European standards, such as Article 191 of the Treaty on the Functioning of the European Union (EU) and Communication COM (2000) 1 of the European Commission, and national standards, such as the 2006 Environmental Code Art. 301. The Framework Law on electrosmog 36/2001 also provides for the minimization principle in its purposes which is an application of the precautionary principle.

In conclusion we ask you:

the repeal of Art. 14, paragraph 8, of Legislative Decree 179/12, known as "Development Decree bis", converted into Law 221/12, in order to report the measurement of electromagnetic fields on an average of 6 minutes instead of 24 hours;

to lower the legal limits for electromagnetic exposures bringing the protection value from acute effects (currently 20 V / m) to 6 V / m, the attention value for the places where you are staying for more than 4 hours (currently 6 V / m) at 0.6 V / m, and the quality target at 0.2 V / m (currently 6 V / m), as requested by the Plenary Assembly of the Council of Europe and international appeals by scientists independent;

to impose a moratorium on 5G, in particular to ban the use of conveyed beams, as decided in Switzerland, and millimeter waves for which there are few studies;

to open a consultation with the social partners who have been dealing with electromagnetic safety for years;

to implement regulations, laws and constraints that prevent the conflict of interest in public health agencies and in the WHO itself from polluting electromagnetic safety risk assessments in favor of the interests of industry and to the detriment of public health;

to subject the entire electromagnetic emissions sector to Strategic Environmental Assessment pursuant to Legislative Decree 152/2006 and that, in this assessment, they are called to participate with a view to absolute transparency and exchange of information as well as independent Research Bodies, Institutions responsible for environmental and health protection and governmental commissions including citizens, professional associations, associations and committees, in the name of participatory democracy, of the rules that regulate it and of those on the transparency of administrative acts.

The current economic crisis requires making health and environmental choices aimed at minimizing risk not only for ethical reasons, but also economically because socio-health spending related to the impact on health due to telecommunications radiation can prove unsustainable.

The reduction of electromagnetic sources, therefore, represents a primary requirement for the economic recovery of our country.

Waiting for your positive feedback, we make ourselves available to provide scientific documentation and to meet you, possibly also by videoconference, to open a dialogue in the exclusive interest of the health of citizens and the protection of flora and fauna. Best regards.

The following associations sign (in order of membership):

<https://www.infoamica.it/appello-per-la-sicurezza-elettromagnetica/>

(more at link)

IEEE AND ICNIRP:

IEEE: One publisher appears to have retracted thousands of meeting abstracts. Yes, thousands.

IEEE

<https://retractionwatch.com/category/by-journal/ieee/>

ICNIRP: REBUTTAL BY ANDREW GOLDSWORTHY of Eric van Rongen “I’m the scientist who sets the global guidelines on 5G safety. Take it from me: 5G doesn’t cause cancer or spread COVID-19.”

<https://www.businessinsider.com/scientist-sets-guidelines-5g-safety-conspiracy-theories-debunked-2020-6?IR=T>

Eric van Rongen:

Contrary to many 5G conspiracy theories, phone radiation heats the human body the equivalent of having a cup of hot tea every two hours.”

“The science is really straightforward — there’s simply no solid evidence that anything other than a small amount of body heating may result from exposure to 5G radiofrequency fields.”

Andrew Goldsworthy (Biologist) responds to ICNIRP’s Eric van Rongen’s post featured above:

There are two main mechanisms by which non-ionising radiation such as that from cell-phones can damage living organisms. One is the heating effect and the other is the effect of low-frequency modulation.

1 The heating effect.

We cannot assume that the heating effect is uniformly distributed through living cells. The cells themselves are highly conductive, whereas the cell membranes have a very high resistance. Therefore, for any given current flowing through a tissue, nearly all of the heat will be generated in the cell membranes. Since these membranes constitute only about one thousandth of the total diameter of a typical cell and virtually all of the heat is being generated in them, the ICNIRP Guidelines, which are based on the assumption that cells and tissues are uniformly conductive, are approximately one thousand times too high.

2 The effect of modulation.

Living cell membranes are electrically non-linear and have a voltage across them of approximately 70mV. They are pierced by countless ion channels that behave like electrically biased Schottky diodes capable of rectifying and so demodulating any alternating signal (including microwave frequencies) with the demodulated low frequency components appearing between the inside and outside of the cell. This is what does most of the damage and here is why:

The cell membrane is mainly made of a lipid bilayer only about 10nm thick, with proteins such as ion channels “floating” in it. The membrane itself is negatively charged because it has outwardly directed negatively charged phosphate groups and is normally stabilised by divalent positive calcium and magnesium ions that cross-link them. But the demodulated cell-phone signal makes the negative membrane and its protective divalent ions move in opposite directions. This destabilizes the membrane and makes it more likely to perforate and collapse the voltage gradient across it. This, in turn, opens voltage-gated calcium ion channels in the membrane that let huge numbers of calcium ions into the cell down a massive 10,000:1 electrochemical gradient.

In nature, this increase in the internal calcium concentration is taken as an indicator to the cell that its membrane (and by implication, the whole cell) has been damaged and sets in train a series of repair mechanisms, which uses a great deal of metabolic energy. If it succeeds, the cell is repaired, if not, the cell dies, but either way a great deal of energy is used. This may in large part explain the chronic fatigue syndrome that was found in early mobile phone users (Yuppie flu) and is now much more widespread in the community due to our constant exposure to cordless phones, their base stations, WiFi and all the other wireless devices that current ICNIRP guidelines regard as safe.

Lastly, the relationship between 5G and COVID-19.

We cannot assume that because the 5G radiation is mainly absorbed by the skin that it cannot damage the rest of our bodies. If the energy of the radiation is disproportionately absorbed by the skin, then the damage to the skin and the blood and lymph circulating through it will also be disproportionately large. The effects of 5G on lymphocytes could be particularly damaging. They too will have their energy drained by the calcium influx caused by the radiation, have less to

spare to generate their protective antibodies and so make the immune system less efficient. So, I guess you could say that 5G can promote the spread of COVID-19. That said, most other forms of information carrying (i.e. modulated) frequencies may be even more dangerous, particularly WiFi with its extremely low frequency (10Hz) beacon signal being possibly the most dangerous.

Dr Andrew Goldsworthy, Lecturer and Biological Safety Officer (retired) Imperial College London.

<https://www.emfsa.co.za/news/andrew-goldsworthy-biologist-responds-to-eric-van-rongens-icnirp-statements-about-5g/>

ICNIRP:

Radiation guidelines for mobile phones "strongly influenced" by the mobile radio lobby and the military - Epoch Times, 24th June 2020 (auto-translation)

The new ICNIRP "Guidelines for Limiting Human Exposure to Electromagnetic Fields" (cellular radiation) were published in March of this year. Both the mobile radio lobby and the US military are said to have played a major role in the design.

The International Commission for Protection from Non-Ionizing Radiation (ICNIRP) is a relatively unknown but powerful scientific non-governmental organization based in Germany. The NGO works closely with the European Commission and provides security guidelines for mobile phone radiation to the EU member states.

An investigation commissioned by MEPs Michèle Rivasi (Europe Ecology) and Klaus Buchner (Ecological-Democratic Party) concludes:

"ICNIRP is a biased, scientifically biased organization that has many direct links to the telecommunications industry."

The report examined the work of the ICNIRP and the 45 members of the Commission and the scientific group of experts. The aim was to determine whether the Commission "works completely independently and whether [...] its members find themselves in situations of conflict of interest."

Tunnelblick: "Like-minded scientists" ignore different research

Although more and more scientific publications appear on the dangerousness and harmful effects of electromagnetic fields, this is largely ignored in the public discussion about the introduction of 5G, the authors say.

The ICNIRP has played a leading role in the scientific debate for almost three decades. In her role, she provides advice and guidelines that are widely followed by governments around the world.

Based on the results of the report, the two MPs believe that we cannot rely on ICNIRP for truly independent scientific advice.

It also says that a more independent, European scientific assessment in this area is urgently needed and fully justified.

However, the composition of the commission is very one-sided: "The members all share the same position on safety issues: non-ionizing radiation only poses a health hazard on a thermal level." Prominent ICNIRP members repeatedly denounce the results of independent studies . Among other things, the US National Toxicology Program (NTP) showed that rats and mice contracted cancer when exposed to telephone radiation .

"The Commission has turned a very closed circle of like-minded and self-proclaimed scientists into an indulgent science club. A lack of medical, biological expertise and a lack of scientific expertise in specific risk assessments could lead to a "tunnel vision".

Two leading experts, Hans Kromhout and Chris Portier, confirmed in the report that the ICNIRP is a "closed, non-accountable and unilateral organization".

Conflicts of interest pre-programmed

Rivasi and Buchner explain that several ICNIRP members are or were members of the International Committee for Electromagnetic Security (ICES). This organization includes many people from the telecommunications and energy sectors and the military and is actively involved in the decision-making process.

Documents from the ICES Annual Meeting 2017 also show that "WHO [after meeting with a former Motorola employee] agreed to promote international harmonization of the [radiation limit values], especially between ICNIRP and ICES".

This clearly shows that ICNIRP worked "very closely with IEEE / ICES" in the creation of the new security guidelines.

This in turn means that large telecommunications companies and the US military had direct influence over the guidelines. These have been the basis for EU policy in this area for several years.

Déjà-vu with tobacco, climate and pesticides

Klaus Buchner said: "The European Commission and national governments from countries like Germany should stop funding the ICNIRP. It is high time that the European Commission created a new, public and completely independent advisory board for non-ionizing radiation ". Current funding for ICNIRP could benefit the creation of this new organization.

Given the research framework "Horizon Europe" in the amount of 75 to 100 billion euros, the funding "should in no way be an insurmountable hurdle for the establishment of a new, really independent facility." Buchner further said : "This is reminiscent of the trivialization of asbestos, where it was also claimed for years that it was harmless. "The German researcher Erwin Schliephake published the first research on health damage from radio radiation in 1932.

His colleague Rivasi added:

I really have a déjà-vu [...] of how the tobacco industry has manipulated the scientific debate for decades, how energy companies have derailed climate policy and how agrochemical companies have distorted the effects of their pesticides on biodiversity and public health. "

"This is not even about lobbying alone, it goes much deeper and has huge potential ramifications, especially for the younger generations who are growing up with cellphones by their side and at a time when the EU is aggressively pushing for 5G to spread rapidly urges - a

development that is not scientifically controlled and whose benefits for society are overestimated," said the MEP.

Lobbying at the expense of future customers

Although the telecommunications sector in the European Union (both in Brussels and in the Member States) has a high level of lobbying, the European Telecommunications Networks Operators' Association (ETNO) is not committed to lowering the ICNIRP standards. These are not seen as part of the "regulatory pressure" that hinders technological development.

On the contrary: The standards proposed by the ICNIRP are the "harmonized limit values" that the ETNO welcomes. All in all, the telecommunications sector appears to be quite satisfied with the Commission's positioning.

This is also reflected in every annual report from large telecommunications companies. When it comes to discussing the security of your cell phones, they are happy to refer to the ICNIRP guidelines.

<https://www.epochtimes.de/politik/europa/studie-grenzwerte-mobilfunkstrahlung-lobby-militaer-icnirp-einseitige-forschung-a3273640.html>

ICNIRP: ICNIRP's Principal Patron: Germany

Provided 70-80% of Its Support in Each of Last Three Years

<https://microwavenews.com/short-takes-archive/germany-supports-icnirp>

IEEE Committee on Man and Radiation (COMAR)

Although no research has been published on the bioeffects or health effects from exposure to 5G radiation, the IEEE Committee on Man and Radiation (COMAR) has published an "expert statement" in the journal Health Physics that claims "(w)ithin current exposure limits, there appears to be little or no risk of adverse health effects related to radiofrequency (RF) exposure from 5G system."

<https://www.saferemr.com/2020/06/IEEE-COMAR.html>

INSPIRATION: Sacha Stone

I'd like to invite each of you to attend the free online World Health Sovereignty Summit this weekend (June 27th) which can be accessed via:

www.reclaimyourlives.com

Please join the Summit team and I, along with Del Bigtree, Robert F. Kennedy Jnr., G. Edward Griffin, **Dr Zach Bush**, Dr Rashid Buttar, Dr Judy Mikovitz, Professor Dr Dolores Cahill, Dr David Martin, Andrew Wakefield, Dr Sherri Tenpenny, Dr Cordie Williams, Sean Stone, Dounne Alexander MBE., Robert David Steele, Dr Sandra Rose Michael, His Grace Bishop Riah of Jerusalem, Thomas J. Brown, Dr Dreamer, Rev. Dr Nancy Ash, Dr Robert O. Young, Pastor Aaron Lewis, Rabbi Schnaider, Paramount Chief Gnakale, Justice Dr Una McGurk & ITNJ Chief

Justice Sir John Walsh of Brannagh along with many other community leaders from across the globe, as we enjoin our voices to reclaim our lives.

www.reclaimyourlives.com

SATELLITES: SpaceX gearing up for another launch of Starlink broadband satellites this week

<https://spaceflightnow.com/2020/06/23/spacex-gearing-up-for-another-launch-of-starlink-broadband-satellites-this-week/>

SATELLITES: Satellites documented COVID-19's impact from space

NASA, ESA, and JAXA took snapshots of COVID-19's effects on economic activity and pollution

<https://www.theverge.com/21302906/satellites-covid-19-impact-economy-environment-nasa-esa-jaxa-dashboard>

SURVEILLANCE: Experts Denounce Racial Bias of Crime-Predictive Facial-Recognition AI

<https://threatpost.com/experts-denounce-racial-bias-of-crime-predictive-facial-recognition-ai/156871/>

SURVEILLANCE: New Bill Targeting 'Warrant-Proof' Encryption Draws Ire

<https://threatpost.com/new-bill-targeting-warrant-proof-encryption-draws-ire/156877/>

SURVEILLANCE: <https://www.commondreams.org/news/2020/06/24/historic-day-boston-city-council-bans-facial-recognition-surveillance>

SURVEILLANCE: House Investigating Company Selling Phone Location Data to Government Agencies

A Democratic-led committee said it was conducting an investigation of the products sold by data broker Venntel

<https://www.wsj.com/articles/house-investigating-company-selling-phone-location-data-to-government-agencies-11593026382>

SURVEILLANCE: A Quick and Dirty Guide to Cell Phone Surveillance at Protests

<https://www.eff.org/deeplinks/2020/06/quick-and-dirty-guide-cell-phone-surveillance-protests>

TECHNOCRACY: Data Is The False Religion Of Technocrats

<https://technocracy.news/data-is-the-false-religion-of-technocrats/>

TRANSPORTATION: Connected cars facing a data logjam

Vehicles are becoming increasingly connected and different stakeholders are looking to benefit from the information that this data provides. One of the key challenges is the ensuring that the data is being delivered to its intended location and that delivery of information, be it to the vehicle or from the vehicle out to the network, happens without delay. Krishna Jayaramen, head of connected vehicles, mobility for Frost & Sullivan, explained that current data demands for connected vehicles is not a major issue, however the evolution of autonomous vehicle capabilities will present a major challenge.

He said: “The scenario is completely different—we could be talking about terabytes of data. Most traditional carmakers are still collecting massive amounts of data over the cloud and that’s why the data sets that could be anywhere from between 1-10 terabytes. That’s data from cameras, LiDAR, and radar and the data jam issue pops up more with a real-time data feed we need with AVs.”

It will be necessary to consider concepts like ring buffers or data compression technologies, whereby electronic control units (ECUs) would be updated to receive OTA updates, which could include airbags or the vehicle’s suspension. Jayaramen explained: “You can’t really send that data in bulk, because there is a cost association. The biggest cost is movement of data, it’s not really processing of data. What happens is there is a technique to collect bits of data and push it out of the car and is expanded once it reaches the server.”

He pointed out the data jam could happen within the next three to four years as automakers unify connectivity and autonomy to a more holistic degree. “There’s a lot of legacy systems out there,” he said. “We are trying to bridge the gap, and they’re still finding ways to bridge those gaps.”

<https://urgentcomm.com/2020/06/18/connected-cars-facing-a-data-logjam/>

SMART TV: 54% of US broadband households now own a smart TV

<https://www.parksassociates.com/blog/article/pr-06242020>

UTILITIES: Georgia Power Set to Automatically Enroll New Residences in Demand Charge Rates

<https://www.energyandpolicy.org/georgia-power-residential-demand-charges/>

UTILITIES ENERGY: In states where governors have made broad promises on addressing climate change, the results are often falling short of the rhetoric. Bold ambitions meet rocky realities in blue states

<https://www.eenews.net/stories/1063442755>

UTILITIES ENERGY: California's clean energy programs are mainly benefiting the rich, study finds

<https://www.latimes.com/environment/newsletter/2020-06-25/will-the-rich-continue-to-be-the-main-beneficiaries-of-californias-clean-energy-future-boiling-point>

for example:

UTILITIES: Bring-Your-Own-Batteries and EV Chargers: The Future of Distributed Energy Integration?

<https://www.greentechmedia.com/articles/read/bring-your-own-everything-programs-the-future-of-distributed-energy-integration>

UTILITIES: Rising Severe Weather From Climate Change Threatens Grid Operations, Says Accenture Report

Most industry executives see growing financial risks from increasing extreme weather

<https://www.utilities-me.com/news/15658-rising-severe-weather-from-climate-change-threatens-grid-operations-says-accenture-report>

UTILITIES: Mainers Consider Putting Electricity, Internet in Local Hands (Episode 103)

<https://ilsr.org/mainers-public-power-episode-103/>

UTILITIES: Pennsylvania grand jury finds government failures during fracking boom

(Reuters) - Pennsylvania government agencies systematically failed to oversee the oil and gas fracking industry and protect residents from the inherent risks of industry operations, according to the findings of a state grand jury.

<https://www.reuters.com/article/us-pennsylvania-energy/pennsylvania-grand-jury-finds-government-failures-during-fracking-boom-idUSKBN23W33M>

(similar to smart meter deployment, and 5G?)