

EU treaty: incentivise public health over mobile radiation

European Case Law under the Court of Justice of the European Union means that the EU's conflict of interest between incentivising public health or mobile radiation requires the EU to give precedence to public health and health security.

A powerful paper by experts on non-thermal mobile radiation explains how the EU is failing to ensure the health of the general public by allowing increasing mobile radiation such as 5G.

(Nyberg NR et al., Rev Environ Health, 2022).

Upper Tribunal:

- EHS: disability under Equality Act - School to remove Wifi & mobiles

An Upper Tribunal judgement can set legal precedents, although the eligibility of each EHS child's EHCP is determined on its own evidence.

- The case recognised that disability from EHS comes under the Equality Act 2010.
- The ruling set a precedent for changes needed, e.g. removing the Wifi and mobile phones causing the child's EHS at under ICNIRP's thermal limits.



'When life seems hard, the courageous do not lie down and accept defeat; instead, they are all the more determined to struggle for a better future.'

HM Queen Elizabeth II, Christmas Broadcast, 2008.

Non-thermal 5G mast: ES symptoms

A non-thermal 5G roof mast gave ES symptoms.

(Hardell L et al., Medicinsk Access, 2022)

Non-thermal mobiles: ES symptoms

Use of a mobile phone for 15 minutes causes cardiac and endocrine stress. Shungite may help.

(Schneider R, Electromagn Biol Med., 2022).

International Commission on the Biological Effects of Electromagnetic Fields (ICBE-EMF): key new [study](#).

UKHSA's thermal myth: Victimisation?

• The UKHSA still follows ICNIRP's and Schwan's 1953 myth of heat being the only adverse effect of RFR. This claim was disproved by the 1930s.

• By not adopting international biological limits, like Bioinitiative, Building Biology, EUROPAEM, IGNIIR and Seletun, which protect against non-thermal effects, the UKHSA appears to be victimising people harmed at non-thermal levels.

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ES-UK NEWS

Write to MPs

A supporter recommends writing to your MP and councillors, perhaps with relevant print-offs.

New ES-UK Resources

See the ES-UK website, Resources, 4.7 and 2.8: Graham Arthur's *Tips for Reducing EMF Exposure*. This excellent 48-page survey covers a large amount of very helpful material. [Link](#).

"Electrosensitivity: Key Facts", two-sided A4, also the back page of the Newsletter so that you can detach it and use it elsewhere if you wish. [Link](#).

Canary in a Gold Mine

Thanks to Sarah for organising ES-UK access to Jonathan Mirin's film 'Canary in a Gold Mine'. People reported finding his story of realising that his wife had EHS both accessible and moving.



Christmas Cards

Please select 'Sliding Penguin' and/or 'Winter in the Park'. These are in packs of 10 cards with matching white envelopes.

Your order may contain any number of packs of each design.

1 pack - £7.75; 2 packs - £12.00; 3 packs - £17.50; 4 packs - £23.00; 5 packs - £28.00.

Christmas Cards will be sent to you by 2nd class post within the UK in November 2022. Late orders will be accepted if you do not need cards before this date.

There are also Swan Cards available as in previous years left blank for your own message. Please make your cheques payable to ES-UK and send to: BM Box ES-UK, London WC1N 3XX.

Or you can pay via Pay pal on the website: www.es-uk.info and email the number and type of packs required and your name and address to media@es-uk.info.

All profits go to ES-UK. Printing is part funded by Gordon Flavell. Photographs by Phil Davis Photography

Winter Hike

Join us for a hike in the Sussex Countryside and a rural pub lunch (pay your own) on Sunday 20th November 2022. Tickets are £15 and include one pack of Christmas Cards and an ES-UK newsletter. Camping is available for hardy souls @ £20/camper/night. Please respond to Sarah at media@es-uk.info.



PHSO

failure

People who were one of the 80+ complainants linked together in the PHSO case can find comments on the final outcome at:

<https://ssita.org.uk/health-before-wealth/>

Jane Duncan, 1965-2022

We are very sorry to report the sad death of Jane Duncan at her parent's house in Tynemouth. She had been living in a remote part of Wales at Cribyn near Lampeter. Like many other ES people she had just found life unbearable.

(from Ryan Warne)

Avoiding airport scanners

Brian Stein writes:

This summer my wife and I went to Crete for our summer holiday, the first time for many years we have been abroad. We only fly short haul (no TVs etc in the head rests).

I was nervous about airport scanners (recently recovering from a cancer scare) and took with me a letter from my doctor and a letter from Andrew Tresidder to show at the airport to avoid going through the scanner. I also took a copy of research from Los Alamos showing that airport scanners alter DNA, but thankfully did not need it).



You can download Andrew's letter from the ES-UK website. My doctor's letter simply said "I thought I suffered from electrosmog (chest tightness and palpitations, headaches and generalised fatigue and fuzziness) associated with proximity to electrical equipment. Although not supported by the Health Protection Agency, scientific opinion was generally swinging towards this concept of damage to health from non-ionising radiation."

As soon as I showed the first letter at the UK airport, I was given a search and not forced to go through the scanner and on my return, I showed my second letter to the Greek authorities and was allowed a search, no scanner.

I would encourage everyone going abroad to follow this approach as the authorities do not want to challenge a doctor's letter.

Hacking of trustees' emails

Emails between trustees of ES-UK were 'hacked' on Wednesday 21st Sept and Saturday 1st October 2022. Over ten years ago a trustee's emails were accessed by the Ministry of Defence, post from the BM Box was opened, and a trustee's telephone line was tapped, all in the days before

the News of the World scandal which highlighted the criminal nature of such offences.



Under the Regulation of Investigatory Powers Act 2000, §1, it is an offence to intercept any communication like emails. Exceptions, to detect a serious crime or a threat to national security, need a warrant from the Home Secretary, hardly appropriate for a health charity whose trustees try to support people made ill with a condition established scientifically and recognised legally. Moving emails into the trash bin after presumably illegal reading may also count as harassment. (James Welch: "Who can intercept my emails?" Guardian, 24 Aug 2009)

Thanks to all at ES-UK

From an email of 5th October 2022:

Thank you so much. I have also printed off a letter to give to my doctor from your website and some information to bring their practice up to speed.

The website and its information have been amazing. I have been doing research since Easter 2021 and all the answers I needed were here, the advice, how to make the home easier to live in, the support and resources, everything!

Recommended books have already been requested to be available in our local library. I wish I knew it all before I purchased another terraced house. An igloo or a tent may have been more appropriate.



Please thank all your team for the knowledge that they shared with so many probably equally frustrated - desperate individuals like myself. They have probably saved many lives.

I can pass their information on to the many dedicated, caring professionals I have had the privilege to work alongside, who were as baffled as I was. God bless you all.

PS. I start full-time voluntary work soon in an area with no fluorescent lights, away from electricals and away from the public's mobile phones.

“Hidden Disabilities” ITV, 4th August 2022

About 12 out of the 14 million people living with a disability have one which is not visible. It can affect people’s lives from



getting a diagnosis to their education or job. Saima Mohsin, the reporter of this film, said: “While working as a foreign correspondent my foot was run over in an accident. My life changed overnight. I have to deal daily with chronic pain. I am far from alone when it comes to living with a health condition that is not obvious.”

Millions struggle all the time with various conditions that cannot be physically seen, from autoimmune diseases, ADHD, illnesses like ME to Crohn’s, or mental health and brain conditions.

(“Hidden Disabilities: The True Cost?” ITV Tonight, 8.30pm Thursday 4 August 2022)

‘Every cell depends on exquisite electromagnetic signalling’

A letter, signed by seven readers of the environmental journal *Resurgence & Ecologist*, highlights the Michael Mansfield legal case against the UK government’s 5G rollout and continues:

“Connectivity” pursued at any cost is ultimately a disconnect. In the 1960s, Rachel Carson helped humanity to become aware of chemical assaults on Nature. In our present age, to perceive only the biochemical dimension of life and not its delicate electromagnetism is rather like seeing the world in black and white instead of in colour. Every cell in our bodies depends on exquisite electromagnetic signalling; bees read the faint electromagnetic signatures of flowers. With inescapable transmitters being rolled out for fast downloads, smart cities, and the Internet of Things, plus rising intimate



exposure (even wireless baby clothes), we need sustainability goals that prioritise non-toxic alternatives such as creative use of fibre. Numerous research papers – many of them recent – record biological effects from EMFs below today’s permitted levels, including oxidative stress, a well-known risk factor for chronic diseases.

Nature is waiting for humanity to outgrow its frequent blindness to such risks and honour the Precautionary Principle: a resurgence of wisdom.”

Signed: Ian & Lynne Wycherley, et al.

(From issue 334 (Sept/Oct. 2022) of *Resurgence & Ecologist*, with thanks to the editors/authors)

‘6G’ mast in Cheadle

A ‘monstrous’ 15-metre metal structure quietly appeared in Lymm Walk, Cheadle, in Greater Manchester. Many of the residents said they were not consulted beforehand. The mast, installed by IX Wireless, has a notice on its base saying residents have a right to object if ‘the enjoyment of that neighbouring land is capable of being prejudiced by the apparatus’. Several residents have expressed health concerns regarding the installation of the 6G pole.

[6G will require more antennas than 5G, just as 5G requires five times more than 4G – Ed.]

(Sian Elvin: “Neighbours baffled after 15-metre pole appears outside homes with ‘no warning’” *Metro*, 22 August 2022)



Mast approved despite objections

Plans for a Three 5G mast in Felpham have been approved, despite more than 60 objections. The chairman of Arun District Council planning committee, councillor Terence Chapman, allowed the application to be “called in” because of the

number of objections.

One Felpham resident spoke of her health fears during the planning meeting. "This proposed mast will be beaming microwaves straight into people's bedrooms, including my own," she said. "My only choice will be to move house or try to make my house radiation proof." The woman said her home does not have a smart meter, cordless phone or a wireless internet connection "because of the radiation they all give off".

(Jessica Hubbard: "New 5G mast in Felpham gets go-ahead despite 60 objections" The Argus, 30 August 2022)



Thousands oppose Bristol 5G mast

A petition against a proposed masts by EE and Hutchison 3G in the middle of Redcatch Park in Knowle passed the 3,500-name threshold to trigger a formal discussion at the Bristol City Council meeting. The plans sparked a huge backlash from residents, with more than 4,300 people signing the petition.

(Adam Postans: "Thousands of Bristol residents sign petition opposing new phone masts" ITV.com, July 4 2022)

Unusual report on Trafford refusing 5G masts

"This week Trafford Planning, Greater Manchester, has refused two 5G masts one in Urmston and the other in Timperley. This is great news. However, the reason for refusal is very interesting. It read: The application fails to demonstrate that the proposal would be in compliance with ICNIRP Public Exposure Guidelines. As such, the proposal would fail to comply with the provisions of paragraph 117 of the National Planning Policy Framework. We can go one further after finding out officially that a 5G or even a 4G mast should be around 500m away from a residential area, we can inform you that many masts are well within this figure."

("Council believes a 5G mast in Timperley did not comply with ICNIRP guidelines" News4Trafford, 14th July 2022)

Westgate appeal against mast

Residents in Westgate have contacted the Secretary of State for Levelling Up, Housing & Communities, to ask him to revoke a decision which allows a 20ft 5G phone mast to be installed next to St Saviour's junior school. In 2018 a similar application was made but due to Kent County Council planning policy at the time, including there being less than 25 years on lease of the cricket field site and due to the precautionary principle regarding safety of telephone masts near schools, KCC quashed the plans. Planning documents say the mast is 100 metres away from the nearest school but campaigners say the distance is closer to 14 metres. The petition says: "How safe is this for the children from St Saviours C of E Junior School (aged 7 to 11) to be playing alongside this new electromagnetic radiation technology?" (Kathy Bailes: "Westgate residents appeal to government to quash plans for 5G mast near junior school" The Isle of Thanet News, July 27 2022)

Invalid claim of 'totally safe' hospital roof mast

For the Fulwood area, Cellnex UK Ltd claimed that 5G is totally safe: "Cellnex sites transmit nothing more than ordinary radio waves."

[Radio waves have been known to cause adverse effects since 1893 and cancer since 1945. = Ed.]

(Brian Ellis: "Health safety pledge over new 5G phone mast on Preston hospital roof" Lancashire Post, July 27 2022)



Ofcom report: 4G and 5G can operate below international non-thermal guidelines?

Thresholds for:

5G: -110 dBm for high and -100 dBm for very high confidence in coverage.

4G: -105 dBm for nearly all connections delivering at least 2Mbit/s and reliable voice calls.

Voice and text: 2G (-81 dBm), 3G (-100 dBm), 4G (-105 dBm). *[These thresholds show that mobile phones can operate below the international non-thermal safety guidelines of -70 to -31 dB. ICNIRP's heating-only +25 dB is clearly far too high. -Ed.]*

(Ofcom: "Connected Nations Update" 7th October 2022, pp.8-9,11)

MPs to vote on telcoms masts for fibre

Dame Diana Jackson, Labour MP for Hull North, has sponsored a Private Members Bill, the Telecommunications Infrastructure (Consultation) Bill, which will have its second reading on 18th November 2022: “A Bill to make provision about mandatory local consultation in relation to the installation of telecommunications infrastructure in residential areas; and for connected purposes.”

This Bill would make it mandatory for UK operators building Fibre-to-the-Premises (FTTP) broadband ISP networks to initiate a local consultation when deploying new telecommunications infrastructure in residential areas such as telecoms poles. The Electronic Communications Code (ECC) was much more restrictive, but in 2016/17 via the Digital Economy Act the rules were softened. Poles are typically built using Permitted Development (PD) rights, without the usual planning process.

(Mark Jackson: “MPs Back Bill Designed to Tackle Controversial UK Telecoms Poles” ISPreview, August 9 2022)

Optical Fibre cables

Left: Mk5C master socket.

Right: Optical Network Terminal (ONT):
Nokia G-01G-Q.



UKHSA PHE and ‘smart’ 2B cancer meters

Some pharmacy prescription bags have been overprinted with the following wording. “How could a smart meter help keep you warm and well? ... Health information sourced from Public Health England.”

[There is no mention that smart meters emit dangerous levels of RFR, a 2B cancer agent, and that people can develop ES symptoms caused by these RFR smart meters. PHE and UKHSA should be warning against these dangerous smart meters – Ed.]



Notice from Stop Smart Meters UK

Remember: You have the legal right to refuse wireless ‘smart’ meters for electricity and gas.

As regards a Smart Meters advert, it has been known since Einstein’s lifetime, in 1893 when he has aged 14, that the non-thermal RFR used by wireless ‘smart’ meters causes biological harm.

A German court has stated that all RFR transmitters should be safe, even below ICNIRP heating-only short-term limits.



UKHSA/PHE and Ofcom’s ‘discrimination’ against people with EHS

From Sean Carneys letter to MPs of March 17 2022:

The flawed ICNIRP exposure guidelines which PHE recommends are for thermal effects only. Dr Leendert Vriens makes it clear that the ‘ICNIRP 2020 guidelines are only intended to prevent any obstruction to the roll-out of wireless communication applications in general and of 5G in particular’ and ‘the harmful effects of non-thermal biological effects have not been included in the determination of ICNIRP guidelines’.

In following ICNIRP’s guidelines Ofcom does not recognise harm the growing health issue of Electrosensitivity or Microwave syndrome. Using their own words I believe they [Ofcom] are being “unduly discriminatory against other persons”. So far, the government has not invoked the precautionary principle ... Public health doesn’t appear to be the priority.

“ICNIRP is not representative of the scientific community since it does not include representatives from scientists that agree there is evidence of harmful effects at levels well below ICNIRPs limits although these scientists are in majority in the scientific community.” How the government is behaving is a clear breach of the Nuremberg Code. A pervasively misinformed public does not unanimously consent to what can be seen as unlawful experimentation on all. (Sean Carney: “Open Letter To UK Parliament On The Insane Law Changes For 5G Rollout” Principia Scientific International, March 17 2022)

CAN YOU HELP?

Local Authorities and people forced by RFR and EMFs to live in cars or tents

There seem to be increasing numbers of people being forced out of their homes and having to live in cars or tents because of the very high levels of RFR and EMFs in the UK. Does anyone with housing expertise have available a short document to help Local Authorities understand what they can and should do to ensure suitable housing for these homeless people?



Trains causing ES symptoms

A reader in France writes:

Everyday I experience about twenty extreme sensations of pressure and acute pain at roughly 20 minute intervals. These pains frequently precede by minutes, or are coincidental with trains passing my house.

These pains are extremely bad when the sky is clear and the trails of planes can be seen. On cloudy days, they are less pronounced. The pains are so regular and so predictable to me, if I stay at my home, that I cannot believe they are biological in origin. They frequently occur, for instance, at 21.05, at 11.50, at 10.30, etc.

My G.P. and I have ruled out other medical issues. These pains are having an enormous

impact on my health, they are like torture to me. They affect my metabolism at many levels; my heart, my digestive system, my balance, my nervous system, my endocrine system, all are affected in various ways.

A typical day's pains, from my notes, if I stay at my home by the trainline, look like this:
26/07/2022: 6.50, 7.30, 8.25, 8.30, 9.10, 9.40, 10.35 (bad), one in between, 11.20, 11.40, 12.06, 13.40, out, 20.15, 21.05.



(RailPass.com)

I would like to know the cause of these pains. Can anybody tell me? They feel like a timetable to me. It doesn't matter what I do, stand, walk, run, sit, lean, etc. the pains still happen. Between 19th and 30th of September 2022, the trainline was out of action. The pains disappeared, which was like a holiday for me! The pains returned on Monday 3rd October, and continue again.

My partner does not get the pains. When I leave my home I get some pains but they are infrequent and of less intensity.

READERS' COMMENTS

TV Wifi hazard - no warning

"In our holiday cottage we eventually found the source of very high levels of Wifi - from the TV. The radiation could only be stopped when the TV was switched off at the wall. The TV had no warnings on it about its 2B cancer radiation. It ruled out normal watching."



Shingles can trigger EHS?

"As regards Ricky Gardiner (obituary Summer 2022 Newsletter), I had shingles the year before I became electrosensitive."

Ban mobiles on standby!

"I started feeling the usual ES symptoms of headache, chest pains etc. Someone had their bag

a few feet away with a mobile switched on but not in use. Shouldn't this be banned in public places?"

More on 'fatally flawed' Million Women Study

"I am one of the Million Women! (MW)

[See Summer 2022 Newsletter, p.14]

In 2018 I sent the MW study a copy of my medical certificate of 2012 from Professor Dominique Belpomme which stated that my EHS / EMFIS (EMF Intolerance Syndrome) was 'objectively proven by deficiency in the cerebral blood flow as shown by pulsed brain Doppler and through abnormal blood ... I certify the existence of this hypersensitivity to EMFs that requires shielding of this patient from all EM sources, even those of low intensity. Failure to do so will result in further brain deterioration.'

Some of my responses to the MW study 2018 Questionnaire:

- I do not have tinnitus according to a leading audiologist, but I suffer from microwave aural effects and also the HUM and infrasound between 8 and 10 Hz. The HUM, which I have suffered since 5th August 2000, disturbs my sleep.
- I am a happy person. The only cause of stress in my life is electrosensitivity.
- After about 25 minutes using a specially adapted laptop with the Wifi removed I become fidgety and unsettled and have to take a break.
- I went to a table tennis session last year but the hall is next to an electricity substation and I was affected by it and other people's mobile phones.
- Other people's phones cause me pressure headaches and stabbing pains in my head (temple, crown, forehead and ears) like a stiletto knife going into the middle of my head."



Hilltop: over radiation limits

"The comment in the last Newsletter, about someone feeling increased Covid symptoms when driving over tops of hills where radiation from phone masts near roads is more concentrated, chimes with my experience. On reaching the top edge of a hilly ridge in Shropshire, I suddenly felt electrosensitivity symptoms like sharp headaches. The meter, which I happened to have with me, showed 0.05 to 0.1 V/m, well over the 0.002 V/m limit for sensitive people. There were very few birds or small insects in the woods."



UK bank provides two-factor authentication for customers unable to use computers and mobile phones because of health reasons

"Since I can't use a computer or mobile phone because my health status, my [UK] bank achieves two-step verification when I use telephone-banking by ringing me back on the telephone number which they have for me."



Wireless water meter replaced

"I explained that for health reasons I cannot have a wireless 'smart' water meter. The company eventually replaced the wireless one with an old meter without wireless."



MEDICAL DEVICE RUINED BY BLUETOOTH

'Illogical mindset' – Bluetooth apnoea device affects heart and nervous system

A reader warns about dangerous medical devices:

"I want to avail you of some information which in my opinion highlights the illogical mindset of people who are responsible for our wellbeing.

I have been suffering from severe tiredness and poor sleep for many years so, after visiting my G.P., I was given an appointment to go and see a specialist in sleep apnoea at my local hospital. After speaking to them, I was given a recording device which analysed breathing, heart rate and oxygen levels. The oxygen monitor fitted over my finger and the main monitor sat on my chest with an attachment which fitted over my stomach. I went to bed and the devices were activated.

Within a couple of minutes my body was spasming and I was bouncing in my bed. I also had a severe burning sensation in my chest and my heartrate was getting higher. I decided to go downstairs and get my Acousticom Radiation Monitor. Upon placing the device on my sleep apnoea monitor it lit up like the proverbial

Christmas tree, indicating the maximum 6 V/m. No pulsing, just a permanent 6 V/m. I therefore decided to remove the device, as my health had deteriorated so much in a matter of ten minutes.

How can the health authorities use devices to monitor people's health, when this technology can affect the heart and nervous system, thus rendering the information gained inaccurate and therefore useless? There used to be sleep apnoea equipment used for monitoring that didn't rely on microwave radiation, so why not use it now? I may now have had a diagnosis that could have helped my physical and mental well-being, but obviously having the latest technology is more important than my and many others' health."

The Nox T3 device used Bluetooth.



Nox T3 (CPAP Europa)

HARMONICS AND A CLOCK

Are we barking up the wrong tree?

- multiplicity of harmonic frequencies the main biological problem?

Dave writes about causes of ES symptoms, Part 1:

The emphasis on the biological damage from RFR in many articles seems to be on received power and frequency. Possibly, more important is the modulation applied to the carrier waves.

Compare sounds. We can often recover from short loud sounds, although shell shock in wartime can cause mental problems. But the most annoying sound has got to be the Drip... Drip... Drip of a leaky tap.



Compare light. Our eyes can adjust from bright sunlight to the dark of a cave after a few seconds. But Strobe and flashing lights can cause headaches and epileptic fits. Walking along a sunlit avenue can be fine but driving fast can cause problems, just like a flickering fluorescent lamp.



The same applies to RFR. Some morse code radio operators in the 1930s and 40s experienced problems from the on/off system at relatively low frequencies. Then the norm became amplitude modulation on top of the higher-frequency carrier wave. Now the 'digital' revolution requires RFR

signals to be repeatedly turned on/off with extremely rapid rise and fall times for each of the many pulses. Fourier Analysis theorises that a square wave form with such a sharp rise and fall can be represented by a single sine wave carrier at the fundamental frequency, with the addition of an infinite number of harmonics of the fundamental frequency. The multiplicity of these harmonic frequencies may be the cause of some of the biological problems, not the carrier frequency or the received power.

Biological studies should be done with and without this modulation. This can be seen with 'dirty electricity'. Many people are not bothered by normal 50 Hertz alternating current mains power. However, the addition of a few digital pulses can cause harm, although many people are probably unaware.

The strange case of the clock in the night - Switched Mode Power Supply troubles

Dave writes about causes of ES symptoms, Part 2;

For about ten years I had a mains-powered digital clock in my bedroom, with a projector displaying the time in large digits on the bedroom ceiling. It was placed on the far side of the room, as far from the bed as possible, and never caused any problems.



About a year ago this clock stopped working so I replaced it with a similar clock in the same place. The first night with the new clock I hardly slept at all. Over the following week, I tried removing the connection lead for the projector system and then the back-up batteries, but there was still no improvement.

After yet more sleepless nights, I at last realised my mistake. The main difference between the two clocks was that the old one had a mains cable into the back of the clock, whereas the new one had a 'plug-top' power supply, with only a low-voltage lead to from the mains plug to the back of the clock. I had removed this low-voltage lead from the back of the clock, but left the 'plug-top' power supply switched on at the wall. After switching off this power-supply plug, I slept for a full ten hours and woke feeling refreshed and alive! I now have to use the clock with just the batteries and not the



mains projector.

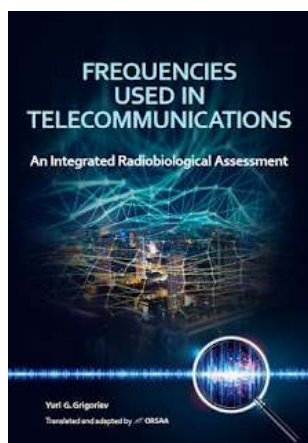
These 'Switched Mode Power Supply' (SMPS) plugs use the 230 Volts mains to drive a very high frequency oscillator. This high frequency is then 'chopped' so that it rises to, say, 9 Volts, and is then switched off, when the next cycles starts nanoseconds later switching it back on. The results simulate a Direct current signal, although it is actually a very high frequency series of pulses.

Now re-read my Part 1 on harmonics!

PUBLICATIONS and FILMS

Professor Yuri G. Grigoriev
(PhD, DMedSci)
1925-2021

“Frequencies used in Telecommunications – An Integrated Radiobiological Assessment”
(ORSAA [Oceania Radio-frequency Scientific Advisory Association Inc.] (2021) 198 pages. [Article](#))



One of the world's leading authorities on wireless radiation has documented the risks of 5G radiation in "the first book on 5G that outlines the potential dangers of 5G technology, both in Russia and overseas."

The book, written by Professor Yuri Grigoriev shortly before his death, was recently translated into English by the Oceania Radiofrequency Scientific Advisory Association (ORSAA) and can now be downloaded for free.

Many countries (including Australia) base their radiation standards on ICNIRP's Guidelines but Grigoriev points out that ICNIRP is not necessarily a credible body, and its members are not impartial scientists. The ICNIRP Guidelines are inadequate because they are only designed to protect people from the heating effects of radiation. But even this, they don't do properly. Among the problems with ICNIRP guidelines are:

- they don't prevent unacceptable increases in temperature
- they don't restrict the intensity of spikes of radiation
- a person would have to hold a 5G mobile phone 8 cm from their head or body to comply with them.

Grigoriev says 'ICNIRP members persist in arguing that the thousands of peer-reviewed studies that have found biological or medical consequences from chronic exposure to non-thermal EMF levels are insufficient to warrant stricter safety regulations.'

Grigoriev refers to studies showing harmful

effects of 5G millimetre waves (MMWs). They include:

- demyelination of nerve cells
- changes to cell membranes, including changes to ion channels
- inhibition of cell cycle progression
- changes to levels of enzyme and proteins in the brain's hippocampus
- double-strand breaks in DNA
- effects on reproduction
- changes to the sensitivity of the skin
- effects on peripheral and central nervous systems
- effects on the hypothalamus and pituitary glands and changes to cortisol and testosterone hormones
- changes to heart rate
- changes to immune function
- degranulation of mast cells in the skin (that can cause allergic-type symptoms).

Grigoriev says that individuals react differently to exposure, and this can make it difficult for observers to draw conclusions and can lead to errors in assessing the impacts of radiation.

He writes, "From our evaluation of the results of preliminary studies on the possible impacts on the health of the population of the 5G MMW-exposures alone ..., we consider it reasonable to expect the following adverse effects: impacts on normal functioning in the critical organs of the skin and eyes; mediated systemic reactions in the body as a whole; and, most notable, impacts to the nervous and immune systems."

He says, 'Irradiation of the human population by MMWs without the appropriate precautionary standards is clearly immoral – in the same way as conducting or observing an experiment would be, when it has the possibility of developing pathological processes; eg, according to the notion: 'Wait and see ... then we will be able to establish proper standards.' Of course, by then, it will be too late!'

WAR-GAMING FOR PROFIT

“War-Gaming for profit”

(English version) Kompetenzzentrum e.V. (24th July 2022, 26 minutes).

An excellent video reviewing mobile radiation, cancer risk and industry lobbying over the last 30 years. [Link](#).

‘Proof of EHS beyond all reasonable doubt’ in Danish and German

This commentary article in Rev Environ Health, 2021, by Michael Bevington

<https://www.degruyter.com/document/doi/10.1515/reveh-2021-0101/html>

is now available in Danish (Bevis for EHS ud over enhver rimelig tvivl) (<https://nejtil5g.dk/er-elektro-sensitivitet-blot-indbildning/>)

and German (Nachweis von EHS über alle begründeten Zweifel) (<https://www.elektrosensibel-ehs.de/nachweis-von-ehs-ueber-jeden-begruendeten-zweifel-hinaus/>).

ES AND CANCER IN AIRCREWS

U.S. Air Force pilots’ radiation, ES and cancer

Since 1945 it has been known that RFR like radar can cause cancer. This has been confirmed many times, including by the \$30m NTP study of 2018.

The relationship between exposure to radar, avionics and other emissions in the cockpits of fighter aircraft and a rising incidence of cancers among active and retired Air Force pilots needs further investigation. Colonel Dan “Animal” Javorsek, a test pilot, commander of Detachment 6 at the Air Force Operational Test and Evaluation Center (AFOTEC) at Nellis Air Force Base, Nevada, and director of the USAF F-35 Operational Test Team, said, “We’re just starting to tease out some of the data on that and it’s not very encouraging.”

Javorsek was diagnosed with testicular cancer while commanding a squadron in 2016. He joined DARPA in 2018 in charge of its Impact of Cockpit Electro-Magnetics on Aircrew Neurology (ICEMAN) 2-year program on RFR and MFs harming pilots. ICEMAN is now a Small Business Technology Transfer (STTR) program and in May 2021 Norwich University, Vermont, received a \$371,000 Small Business Innovation Research grant from DARPA to continue Phase II research. ICEMAN has \$1.5 million in total funding and is scheduled to last 3 years.

The DARPA programme did not focus on cancer but a study of 2020 by the Air Force’s School of

Aerospace Medicine at Wright-Patterson Air Force Base on 35,000 active-duty airmen who flew fighter jets between 1970 and 2004 concluded they were at higher risk of developing prostate cancer and melanoma, with possible links to non-Hodgkin’s lymphoma and testicular cancer.



The 2021 death of a fellow USAF pilot from cancer inspired Col. Javorsek to establish a non-profit foundation called ACES and Eights to raise awareness for aircrew cancer. Javorsek hopes a bill pending in Congress, the Aviator Cancer Examination Study Act or ACES Act, sponsored by Rep. August Pfluger (R-Texas), a former USAF F-15/F-22 pilot, will impel the Department of Veterans Affairs, the Pentagon and the National Academies of Sciences, Engineering, and Medicine to study cancer and mortality in Air Force, Navy and Marine Corps aircrew members as well as aircraft support personnel. Javorsek says that the lack of examination stem from institutional resistance, the reluctance of aircrew to call attention to themselves and commercial interest within the telecom sector. For instance,

when he managed ICEMAN for DARPA, he couldn't use the word "cancer" in association with the effort for political reasons.



Dan "Animal" Javorsek (ACES & Eights Foundation)

The 2020 study of aircrew cancer rates looked largely at those who flew older aircraft with analog radars whose side and rear lobes flooded cockpits with radiation. But with the advent of stealth technology in the 1970s and 1980s, a determined effort to reduce the radar cross-section (RCS) and thus detectability of airplanes, led to a program called HAVE GLASS. HAVE GLASS included the addition of an indium-tin-oxide layer to the gold tinted cockpit canopy of the fighter. Engineers infused a metallic layer to create a Faraday Cage effect, preventing the waves entering the cockpit from the radar in the nose from bouncing back out into the atmosphere. "The problem," Javorsek says, "is that the same design for keeping [radiation] out, also keeps it in."

The radar energy remains trapped inside newer fighters with HAVE GLASS canopy treatments. Javorsek explains: "if you look at how a canopy is shaped and where a pilot sits, the radar waves end up focused on the pilot." Further, Javorsek says "helmet-mounted cueing systems are about as close as you can get to your brain. We know from work from Caltech for another DARPA program called RadioBio that there is a relationship between your brain waves and disturbances in the EM ambient environment." (Eric Tegler: "Are Air Force Pilots' Cancer Cases Linked To Cockpit Radiation? Calls Rise For Studies" Forbes, 13th September 2022)

Aircrew Checklist:

- If you want a normal chance of having a son, try to conceive when non-flying. NOTE: 7-day break in flying is optimal; each day greatly reduces offspring asymmetry. *[RFR stress leads to a higher ratio of births of girls – Ed.]*
- If you have all female offspring, consider yourself at high risk.
- If you fly with a powerful on-board radar: Anticipate you may experience reduced cognitive performance & attentions management in flight. CAUTION: This includes spatial disorientation, temporal distortion, mis-prioritization, distraction, channelized attention and task saturation rates more pronounced than experienced in a simulator.



For aircrew, cancers where effects from UV light and RFR in the cockpit often occur at near the front of the body were associated with higher rates: e.g. carcinomas like prostate, breast, melanoma skin and lung cancers, along with non-Hodgkin lymphoma. Colorectal and other cancers did not have higher associations.

(Tara Copp: "House, Senate Pass Bills to Study the Number of Cancers Striking Military Pilots" AirportPros, 24th July 2020. Kyle Mizokami: "Are Cockpit Electromagnetic Fields Killing Pilots? The Pentagon is investigating the link between high-tech electronics and aircraft crashes" Popular Mechanics, 15th September 2020. Mackenzie Wolf: "ACES Act seeks to study cancer rates in fixed-wing pilots, aircrews" Legio, 12th August 2022. "Pease Military Cancer Mortality Study: 711th Human Performance Wing Cancer Incidence Study", USAF School of Aerospace Medicine, Memorandum for 157 ARW/CC, 24 May 2021. Owen Davies: "5G and electromagnetic fields: With more bandwidth, EMFs become stronger" Professional Pilot, 2022. Webber BJ et al.: "Cancer Incidence and Mortality Among Fighter Aviators in the United States Air Force" *J Occup Environ Med.*, 2022)

Pilots and why RFR/EMFs matter

Hundreds of scientific studies link RFR/EMFs to serious medical issues: DNA damage, rare brain cancers, including glioma and acoustic neuroma, salivary tumours, heart disease, diabetes, sperm abnormalities, reduced volumes of the brain's grey matter and damage to white matter, neuropsychiatric disorders such as anxiety and depression, and early-onset Alzheimer's.

This is significant to pilots. Nina Anderson, a retired pilot who has built a second career as a respected consultant specializing in EMF issues, reports that jet cockpits are the most EMF-dense environments she has ever examined.

Brain tumours 0.73 to 4.49 per 100,000 in 10 years

In 2009, neurosurgeons and scientists found that using a cell phone for 10 years or more doubled the risk of glioma and acoustic neuroma, but only on the side of the head where users held their phones. In 2008, there were only 0.73 cases per 100,000 population, but in 2018 there were 4.49 per 100,000. No credible alternative reason has been suggested other than cell phone use.

In 2020, genetic variations predisposing people to develop thyroid cancer and heavy cell phone use more than doubled the risk of thyroid cancer in those with any of four such variations.

DARPA Icesman ES project: 101 deaths, 65 aircraft lost

EMFs can affect us in ways that are especially important in the air, including fatigue, irritability, an inability to concentrate, and mild cognitive impairment resulting in task saturation, mistaken priorities, complacency, and spatial disorientation. Between 1993 and 2013, USAF pilots were involved in 72 severe accidents attributed to spatial disorientation, resulting in 101 deaths and 65 aircraft lost. This led to the DARPA ICEMAN project from October 2020.

Fire station mast ban: memory loss, brain damage

A hint of what ICEMAN could find comes from the International Association of Fire Fighters. As early as 2004, the organisation published a resolution stating that it did not want telecom infrastructure located near fire stations. The issue came up when firefighters in Santa Barbara responding to emergencies could not remember

such basic information as where they were going or how to administer CPR. The problem affected those operating from stations with cell towers nearby.



According to Dr Gunnar Heuser, formerly of the UCLA Medical Centre, brain scans showed changes in their grey and white matter.

5G ill health: ICNIRP/WHO captured by industry

Regulators and the WHO still claim the only hazard of RFR is heating. FCC regulations against heating have remained unchanged since 1977. Independent researchers say that emissions are 10 to 100 times higher than they should be.

In 2019, the New Hampshire state legislature created a commission to study 5G health effects. It reported in November 2020 that 5G signals unambiguously couple with biological processes in ways that cause health problems. It also concluded that regulators had been captured by the telecoms they were supposed to police.

The picture is clearest at the ICNIRP, a private non-governmental organisation based in Germany, which influences most European governments, but is tightly bound to the telecom industry. ICNIRP was founded in 1992 under Repacholi who in 1996 also founded the WHO EMF Project, both based on the thermal myth.

His successor at WHO in 2008 was Emilie van Deventer, an electrical engineer from the University of Toronto praised by the university magazine for her "invaluable" service to the telecoms industry. She received research funding from Nortel, then Canada's largest telecom company.

The EMF Project is WHO's sole authority on RFR and EMFs. It established WHO's current policy in a 2016 monograph, written under a 6-member core group with only 1 independent member. The rest were ICNIRP and industry groups, all rejecting the non-thermal effects.

(Owen Davies: "5G and electromagnetic fields: With more bandwidth, EMFs become stronger" Professional Pilot, July 2022)

ES AROUND YOU

Wifi at night: inattention and hyperactivity in children

'The association between inattention / hyperactivity subscale of the Strengths and Difficulties Questionnaire (SDQ) and higher Wif exposure at nighttime was also noted.'

(Yamazaki K et al.: "Measurement of personal radio frequency exposure in Japan: The Hokkaido Study on the Environment and Children's health" Environ Res., 2022)

School Wifi above international limits

'We present a table with the measurements of the personal exposure in the two WiFi frequency bands inside educational centers ... in different countries ... We found the maximum value in Spain with 120 $\mu\text{W}/\text{m}^2$ and the minimum value in Switzerland with 1.19 $\mu\text{W}/\text{m}^2$. The mean value is 36.9 $\mu\text{W}/\text{m}^2$, the median is 22.2 $\mu\text{W}/\text{m}^2$, and the 95th percentile is 110 $\mu\text{W}/\text{m}^2$.'

[This analysis by Arribas E et al. showed its lowest value in a study of 2012-2014 supported by the Swiss Research Foundation for Electricity and Mobile Communication including telecoms such as Swisscom and Ericsson.

Almost all these values are above the international biological limits such as IGNIR at 1 $\mu\text{W}/\text{m}^2$ and Bioinitiative at 3 $\mu\text{W}/\text{m}^2$. - Ed.]

(Arribas E et al.: "Comments on "Measurements and Analysis of Personal Exposure to RF-EMF Inside and Outside School Buildings: A Case Study at a Kosovo School." IEEE, 2022)

Dramatic results of school mobile ban

Davidson High School in Frenchs Forest, Sydney, Australia, has seen a dramatic decrease in behavioural issues and a boost in physical activity and students talking to each other just two months after it tightened restrictions on mobile phone usage. David Rule, principal, said: "Classrooms have effectively become phone-free and this has allowed staff to focus on educating students. In eight weeks of the policy, there has been a 90% reduction in behavioural issues related to phones in the school." The school requires

students to put phones in a pouch that, once closed, cannot be reopened without breaking a lock. Rule said it was "so clear" that mobile phones hindered student learning and focus in classrooms and stunted their emotional and social intelligence. "At a time when mental health is of such a concern amongst our young people, our school community saw the phone as a significant and negative contributor to student wellbeing," he said. Mobile phones are banned in primary schools in NSW. A survey of Davidson High School parents in 2021 found 89 % supported the policy.

(Andrew Taylor: "A Sydney high school banned mobile phones. It had dramatic results" Sydney Morning Herald, August 7 2022)

Australian schools banning mobiles

Top girls' school SCEGGS Darlinghurst has become the latest to restrict phone use amid concerns about increasing dependence and distractibility as teachers across school sectors say students' screen habits have intensified since last year's lockdown.



The eSafety Commissioner, Julie Inman Grant, said parents are struggling to wind back permissive attitudes to social media that applied during the pandemic. A literature review by Alan Parsons, an academic and deputy head of Newcastle Grammar, cited studies that suggested an impact on attention, academic attainment and sleep quality.

Yondr, a company that supplies lockable pouches for phones to schools, said its Australian client list had grown from six schools in 2019 to 134 this year, including 100 in NSW.

(Jordan Baker: "SCEGGS bans students using mobiles as schools battle online dependence: Sydney Morning Herald, May 2 2022)

Mobiles associated with reduced male fertility, and aggravated by headsets

'... per hour increase of time spent on cell phone talking was associated with decreased sperm concentration and total count by an average of -8.0% and -12.7%, respectively.

Besides, daily calling time was associated with lower sperm progressive motility and total motility among those who used headsets during a call. ...

and using headsets during a call appeared to aggravate the negative association between daily calling time and sperm motility.'

√(Chen H-G et al.: "Association between electronic device usage and sperm quality parameters in healthy men screened as potential sperm donors" *Environ Pollut.*, 2022; [link](#))

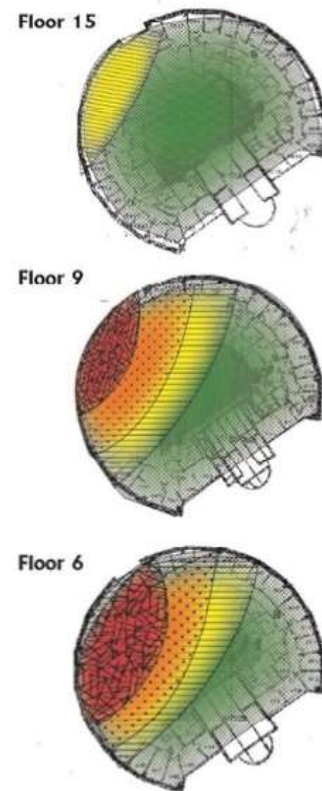


Power lines 'a public health issue'

Another study from Israel confirms sensitivity to conscious symptoms from low frequency power line fields. Similar effects have been known since 1733.



Mean measurements, taken in 2012 on the 15 floors of an office building with 620 employees located 10m from a major 161 KV power line, were between 0.43 and 2.77 mG [43 to 277 nT].



Red = >6 mG [600 nT]; Green = <2 mG [200 nT].

"... feelings of weakness, headache, frustration, and worry were associated with both measured and perceived ELF-MF exposure ... We conclude that high-voltage power lines produce both physiological and psychological effects in nearby workers, and, hence, proximity to such power lines should become a public health issue."

... measured ELF-MF exposure appears to be positively associated with three health symptoms: headache (odds ratio (OR) = 1.3); frustration/worry (OR = 1.2), and exhaustion/weakness (OR = 1.2). The estimated ORs are similar for all three symptoms (OR = 1.2-1.3), indicating that an increase in ELF-MF by 1 mG tends to increase their prevalence by ~20-30%, all other factors being equal.

... The analysis revealed no significant association between instrumentally measured and perceived ELF-MF exposure, which implies that individuals cannot detect actual ELF-MF exposure accurately."

(Raz-Steinkrycer LS et al.: "ELF-MF Exposure, Actual and Perceived, and Associated Health Symptoms: A Case Study of an Office Building in Tel Aviv-Yafo, Israel" *Sustainability*. 2022)

LETTER TO CHAIR OF UKHSA

Ian Peters,
Chair, UK Health Security Agency,

July 22nd 2022

Dear Mr Peters,

I am writing to request an On/Off switch on all devices emitting radio frequency radiation (RFR) to help people disabled by this radiation. I also ask that people sensitive to RFR should have areas to live free of RFR, and equal access to public places, without discrimination. As you know, some 3.6% of the population is disabled in this way.

I originally wrote on this issue to Rick Hill, chair of Ofcom's ACOD, in 2021, who said this disability came under the DHSC, not ACOD. I then wrote to Sajid Javid, then Secretary of State at the DHSC, whose office replied that the DHSC was not responsible. I then wrote to the Secretary of State for the BEIS, but his office told me to contact the DCMS. I then wrote to Nadine Dorries at the DCMS, but her office replied that the DCMS relies on the UKHSA and suggested that I contact UKHSA.

As you doubtless know, the DCMS's letter of April 28 2022 was factually incorrect. It claimed that 'the rollout of 5G is safe', whereas the mainstream scientific evidence since 1930 is that RFR, including 5G, is harmful at non-thermal levels, as known since 1893 when it was shown to cause cardiovascular and metabolic harm, and from 1945 when RFR was shown to cause cancer. This was confirmed by the WHO's IARC in 2011 as a 2B carcinogen and the FDA's NTP \$30 million study which found 'clear evidence' mobiles cause cancer. Insurers do not underwrite RFR, except as high risk like asbestos.

As you will know, numerous recent studies have confirmed that Electromagnetic Hypersensitivity (EHS) exists, as shown since 1746. They also showed that 5G can cause EHS symptoms and that claims by groups like ICNIRP are unscientific, misleading, incomplete and unprotective. Therefore, claiming that RFR is 'safe' would be a lie.

I should be most grateful if you and the UKHSA could help reduce discrimination against people disabled by EHS, as in my three requests above.

Yours sincerely,

Michael Bevington
Chair of Trustees, Electrosensitivity UK

REPLY

The 4-page response from 'Chris' at UKHSA did not answer, or even mention, any of the three specific questions to UKHSA on
(a) an On/Off switch for 2B cancer radiation transmitters,
(b) radiation-free zones for people with EHS, and
(c) equal access to public places.

Chris' answer admitted that ICNIRP guidelines are against only short-term heating.

This admission shows that the ICNIRP guidelines are unprotective and irrelevant to people with EHS. The symptoms of EHS occur at non-thermal levels and from long-term exposures, as known by mainstream science for over a century.

Chris' answer referred to three documents, all regarded by mainstream scientists as out-dated. Two are regarded as wrong or misleading, the 2005 WHO backgrounder no.296 on EHS, which invalidly claimed there was no causal link between EHS and EMFs/RFR, and the notorious AGNIR report of 2012 which was shown to be grossly unscientific in Starkey's devastating critique of 2016, leading to AGNIR's dissolution in 2017.

Chris' reply did not reference the mainstream literature since 1746 showing that EMFs/RFR cause EHS, not the mainstream literature since 1945 showing that RFR causes cancer.

'LIE', [DELIBERATELY] 'MISLEADING' OR 'IGNORANCE'?

The invalidated claim by UKHSA, ICNIRP and WHO of RFR 'safety': 'Lie', [deliberately] 'Misleading' or 'Ignorance'?

The invalidated claim of RFR 'safety' made by UKHSA, ICNIRP and WHO is unscientific and wrong.
Is it a lie?

The Oxford English Dictionary defines a 'lie' as 'a false statement made with intent to deceive'.

The claim of 'safety' is obviously false, given the scientific weight of mainstream evidence.

Is this false and wrong claim deliberate or the result of ignorance?

The unscientific claim of 'safety' is based on Schwan's 1953 myth denying the non-thermal effects. It is theoretically possible, however unlikely, that people making this claim never read or accept studies confirming non-thermal effects because they always reject all such scientific evidence.

Such a rejection is 'arbitrary and capricious', as the US Appeal Court judges ruled in 2021.

'Wrong and 'misleading' are used here. Others must judge if the false claim of 'safety' is deliberate.



Bacon's critique of Aristotle's assumptions

The unscientific and arbitrary thermal claim of UKHSA, ICNIRP and WHO is like Aristotle's blind prior assumptions.

These forced Sir Francis Bacon in 1605 to introduce the new scientific methodology founded on empirical observation instead of a traditional myth.

History is repeating itself.

Bacon and Galileo would be astounded.



Petition response: Misleading claims

Excerpts and comments on the government response to the petition "Prohibit 5G technology in the UK", September 6 2022:

Petition Response Excerpt		Comment	
UKHSA	'there should be no consequences for public health'	WRONG	Numerous serious and devastating consequences for public health are already established at non-thermal levels occurring well below ICNIRP's 2020 heating limits. UK courts accept EHS as a non-thermal adverse consequence for public health caused by RFR/MEFs and require the removal of RFR. Adverse consequences from RFR for public health have been shown since 1893.
UKHSA	'these regulatory areas all consider the international guidelines'	WRONG	'These regulatory areas' do not consider the international guidelines such as Bioinitiative 2012, Building Biology 2008, EUROPAEM 2017, IGNIR 2018, Seletun 2010, but only the arbitrary, unscientific and unprotective heating-only guidelines of ICNIRP 2020, based on Schwan's myth of 1953.

UKHSA	'UKHSA monitors the emerging'	MISLEADING	UKHSA simply follows ICNIRP, for which it supplies members and advice. If UKHSA monitored the emerging evidence, it would have seen studies showing that 5G causes EHS symptoms.
WHO	'no adverse health effect has been causally linked with exposure to wireless technologies'	WRONG	Numerous adverse health effects have been causally linked with exposure to wireless technologies. These adverse effects have frequently been verified since 1893, when EHS symptoms from RF wireless exposure were first shown and from 1945 for cancer.
ICNIRP	'The ICNIRP issues guidelines on human exposure to EMFs, based upon the consensus view of a large amount of research carried out over many years.'	MISLEADING	ICNIRP's 'consensus view' is a fringe minority viewpoint based on Schwan's 1953 heating myth, disproved by the 1930s. In contrast, the weight of mainstream research shows non-thermal effects. US Appeal Judges in 2021 called such thermal-only limits 'arbitrary and capricious'.
SCHEER	'the results of current scientific research show that there are no evident adverse health effects if exposure remains below the levels set by current standards.'	WRONG	'Current scientific research' shows considerable consistent and convincing evidence of 'adverse health effects' below ICNIRP's 2020 arbitrary heating standards. Best current standards are long-term and non-thermal, not short-term thermal-only.

Conclusion: RF 'crisis for health and technology: harmful to environment and people'

'It seems that the scientific experts in the field are very clear about the serious problems we are facing and have expressed this through important appeals (Blank et al., 2015; Hardell and Nyberg, 2020).

However, the media, the responsible organizations (WHO, 2015) and the governments are not transmitting this crucial information to the population, who remain uninformed.

For these reasons, the current situation will probably end in a crisis not only for health but also for this technology itself, as it is unsustainable and harmful to the environment and the people.'



(Balmori A: "Evidence for a health risk by RF on humans living around mobile phone base stations: From radiofrequency sickness to cancer" *Environ Res.*, 2022)

Are we free, do we have inalienable rights, are the authorities working against us?

Neil Oliver, the TV presenter and president of the National Trust for Scotland 2017-20, said:

"People like us, raised in the understanding that we are free, that we have inalienable rights and that the institutions of this country have our best interests at heart will tend to tie ourselves in knots rather than contemplate the idea those authorities may actually be working against us now."

(“Neil Oliver: 'It's hard to tell yourself you've been taken for a fool but open your eyes'” GB News, August 14 2022, 10 mins)

LEGAL CASES

Upper Tribunal, August 2022:

(a) a person with EHS can be considered disabled under the Equality Act (b) Wifi-free is a 'special educational provision'

In *EAM v East Sussex County Council (Special educational needs)* [July 2022] UKUT 193 (AAC) ([link](#)), on appeal from the First-tier Tribunal of Nov. 2021 in a case which began in 2017, Upper Tribunal Judge Jacobs found that the child should be considered disabled by her EHS condition under the Equality Act 2010 and that she required an Education Health and Care Plan (EHCP) without Wifi.

Excerpts from an article by Ed Duff, HCB Solicitors, in Special Needs Jungle, Sept. 6 2022 and elsewhere:

The family took a two-pronged approach.

Firstly, they challenged their daughter's school for refusing to remove the Non-Ionising Radiation (NIR), asserting it to be disability discrimination.

Secondly, the family requested that the local authority (LA) make an Education Health and Care (EHC) Needs Assessment of their daughter. This aimed to secure an EHCP that would require the removal of WiFi in the school as a special educational provision.

Two educational psychologists found the child and her parents credible in describing her symptoms, and previous tribunals accepted the family's evidence and described her symptoms as "debilitating when they occur".

The SEND Tribunal accepted that the young person was "disabled" within the meaning of the Equality Act by EHS. This finding was used to support the family's request to the LA for an EHC needs assessment, which was granted.

What followed was a string of litigation between First Tier Tribunal and Upper Tribunal. Multiple appeals were needed to consider whether an Education Health and Care Plan should be issued.

The First Tier Tribunal (SENDIST) had refused the parents' appeal against the LA's decision not to make an EHCP to support provision for her EHS. Thus the Upper Tribunal became involved.

East Sussex had refused an EHCP saying the required provision could be met within resources available in any mainstream school. The parents

considered that was demonstrably wrong, because of the proliferation of NIR systems. They were not able to find a school that didn't use NIR systems or were willing to accommodate their daughter, so the LA's position seemed flawed.

When the SENDIST considered the appeal, it refused to overturn East Sussex's decision, saying it didn't consider a WiFi-free environment in school to be "special educational provision". As such, it would not be possible to secure an EHCP for the provision. Oddly, SENDIST also concluded that if it was wrong about that, and a WiFi-free environment was a special educational provision, then an EHCP would be necessary.

The Upper Tribunal had to consider what "special educational provision" actually is. In effect, the Upper Tribunal concluded that section 21(1) says that if a provision relates, or pertains, to the education of a pupil, then it could amount to "special educational provision", provided it is not a provision typically available for all pupils. It is not necessary to show that the particular provision, itself, directly educates a pupil, but it must relate to the education of that pupil. The example of a hearing loop is useful, because it helps to demonstrate a provision which, itself, does not actually educate a pupil, but it is a tool relating to the education of a pupil. Therefore, it is an educational provision. Whether it would be a "special educational provision" would require analysis of whether a hearing loop is available for all pupils of that age generally in the relevant type of school or college. As such, the Upper Tribunal concluded that a learning

environment that was free of Wi-Fi could be an “educational” provision, because it related to education.

That logic follows other existing decisions, including SENDIST, where the learning environment required by a child – such as small classes, reduced distractions, visual timetables – are deemed to be special educational provision.

The Upper Tribunal also noted that SENDIST had confused the function of sections 21(1) and 21(5). The language of those two sections had been used interchangeably within the decision that the Upper Tribunal was considering, and that was used to highlight how the Tribunal had made an error in law.

Practically, this is a significant decision. It provides a clear authority suggesting that what

can be “educational provision” is very broad. What makes that provision “special” remains about the availability of the provision.

It is likely this decision will be helpful for numerous appeals that concern learning environments, as well as more generally providing guidance on what “educational provision” means.

It is also likely to provide helpful support for this particular family, not only to secure the necessary provision for their daughter, but to increase both awareness and acceptance of her condition.

(Ed Duff, HCB Solicitors: “The legal implications of a recent Upper Tribunal judgement on what is “special educational provision”” in: “What is “special educational provision” in law? How a case of electromagnetic hypersensitivity may help future appeals” Special Needs Jungle, September 6 2022; Adam Carey: “Upper Tribunal requires council to secure EHCP for student who is hypersensitive to Wi-Fi signals” August 17 2022; PHIRE Press Release: “EHCP awarded for UK child on the basis of EHS” August 2022.

OTHER LEGAL CASES

USA: refusal of antennas upheld

In a landmark decision, Judge Frederic Block, Senior United States District Judge for the Eastern District of New York, found that the Village of Flower Hill, NY, was justified in denying the application of ExteNet (an agent for Verizon Wireless) to place 18 small cell antennas in the Village. The Judge quoted the 1996 Telecommunications Act that “nothing in this chapter shall limit or affect the authority of a State or local government ... over decisions regarding the placement, construction, and modification of persona wireless service facilities.”

Most importantly, the Judge ruled that the provisions of the 1996 Act do not necessarily apply to the new uses of wireless to provide broadband and other services.

(“Victory in Flower Hill, NY! Judge says village's denial of small cell applications was legal and reasonable” Americans for Responsible Technology, 26 August 2022)

Canadian class action v Apple and Samsung

On 22nd September 2022, Judge Christian Immer allowed seven plaintiffs to launch a ‘Phonegate scandal’ class action against the manufacturers of Apple and Samsung smartphones. The action was initiated in 2019 by

Attorney Charles O Brien, after Sam Roe’s article in the Chicago Tribune.

(Equipe Phonegate: “Phonegate Canada: Court authorizes class action against Apple and Samsung” Phoegate Alert, 27th September 2022)

U.S. mobile phone case restarts after 21 years

Murray v. Motorola, case no. 2001 CA 008479 B in D.C. Superior Court, held evidentiary hearings before Judge Irving on 12 to 30th Sept. 2022. This lawsuit was filed in 2001 by Michael Patrick Murray and five others, all with brain tumours just where they held their mobiles. The



defendants include Verizon, Sprint, AT&T, T-Mobile, Bell South, Bell Atlantic, Motorola, Qualcomm, Samsung, SONY, Sanyo, Nokia, the CTIA, and the FCC. In 2010-11, 7 more brain

victims joined the case. Because of delaying tactics and appeals, it bounced between courts for 21 years. Most plaintiffs have died.

(Arthur Firstenberg: “Murray v. Motorola goes to trial after 21 years” Cellular Phone Task Force, 14 September 2022)

U.S. class action by individual states rejected; FCC ‘negligent’; new RFR authority needed

On 26th August 2022, the judges of the 9th Circuit affirmed that FCC regulations prevail over those of the states in the lawsuit against Apple

over its iPhones radiation. The specialist Dr Moskowitz said: “The FCC’s so-called ‘safety limits’ for cell phone radiation emissions are a sham. Congress should ... authorize agencies with health expertise to assume this responsibility.”

(Equipe Phonegate: “Phonegate USA: Apple iPhones win a legal battle” Phonegate Alert, 20th September 2022)

Lawsuit: ‘cellphone tumour’ killed 49-year old

U.S. attorneys R F Kennedy Jr and Hunter Lundy are representing the family of the late Rev. Frank Aaron Walker who died on 31st December 2020, aged 49, from a glioblastoma brain tumour, or what Lundy called a ‘cellphone tumour’, in a lawsuit against Motorola, AT&T etc. Research shows “there is causation between cellphone radiation and brain tumors,” according to Lundy. Kennedy had a series of patents from the 1990s.

showing the telecoms industry knew what ‘was emanating from their cellphones and destroying human cells, mutating them and causing tumors.’

(Rachel Militello: “Public ‘Not Being Told the Truth’ About Cellphone Radiation, Attorney Tells RFK, Jr.: Hunter Lundy, a personal injury attorney and lead counsel on a lawsuit against the cellphone industry, joined co-counsel Robert F. Kennedy, Jr. on a recent episode of “RFK Jr. The Defender Podcast.” 29th June 2022)

French legal challenge to ANSES Health Agency



On August 12 2022, the associations Phonegate Alert, Robin des toits and ECERI challenged in court the modalities of the public consultation and the report of ANSES (French Agency for Food, Environmental and Occupational Health & Safety) about 5G published on February 17 2022. (“5G: the masquerade of the ANSES public consultation challenged at the Administrative Court” Phone-Gate Alert, August 17 2022)

<p>Electrosensitivity UK (ES-UK) www.es-uk.info</p> <p>Aims: 1. To help people suffering from Electrosensitivity (ES). 2. To educate the public about ES and related areas.</p> <p>Registered Charity No.: 1103018 Founded 2003 BM Box ES-UK, London, WC1N 3XX Telephone: 0845 643 9748 enquirers@es-uk.info</p>	<p>Support ES-UK Paypal (on the website)</p> <p>Cheques to: Electrosensitivity UK, to: The Treasurer, BM Box ES-UK, London, WC1N 3XX</p> <p><i>from whom you can obtain Standing Order, Direct Debit, Gift Aid and Legacy declaration forms.</i></p> <p>Please donate £20 or more per year for printed newsletters and general support of the charity if you can afford it.</p>	<p>Trustees: Michael Bevington (chair) Sarah Dacre, Brian Stein CBE Dr Andrew Tresidder, Phil Watts</p> <p>Medical Advisers Dr Dietrich Klinghardt Dr Erica Mallery-Blythe</p> <p>Scientific Advisers Dr Andrew Goldsworthy Professor Emeritus Magda Havas Professor Emeritus Denis Henshaw Professor Associate Olle Johansson</p>
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Resources available at: www.es-uk.info:

- [Letters to doctors and psychiatrists on Electrosensitivity](#), by Dr Andrew Tresidder
- [Resources: Disability, Guidelines, Housing, Planning, Public Health, Shielding.](#)
- [ES Directory](#) (suppliers) ▪ [ES-UK Leaflet](#)
- [ES and EHS: A Summary](#) (2013) ▪ [Selected ES and EHS Studies](#) (studies with links) ▪ [Newsletters](#) (including past copies)

Newsletter: Mailing: S Dacre. Contributions: editor@es-uk.info; M Bevington, Newsletter Editor, BM Box ES-UK, London, WC1N 3XX

<p>ABBREVIATIONS: CONDITIONS</p> <p>CFS chronic fatigue syndrome EHS electromag. hypersensitivity EI environmental intolerance ES electrosensitivity FI functional impairment HS Havana (EHS) Syndrome MCS multiple chemical sensitivity ME myalgic encephalomyelitis MS multiple sclerosis MWS microwave sickness</p> <p style="text-align: center;">DEVICES</p> <p>ATA analogue telephone adaptor CLF compact fluorescent light LED light-emitting diode ONT optical network terminal</p>	<p>METRICS, NON-THERMAL</p> <p>G-S Graham-Stetzer (<i>transients</i>) Hz Hertz (<i>frequency, cycle per sec</i>) kHz kiloHertz (<i>frequency</i>) mG milliGauss (<i>magnetic field</i>) MHz megaHertz (<i>frequency</i>) nT nanoTesla (<i>magnetic field</i>) THz teraHertz (<i>frequency</i>) V/m Volts per metre (<i>electric field</i>)</p> <p style="text-align: center;">METRICS, THERMAL</p> <p>dBm decibel-milliWatts (<i>each 3: x2</i>) SAR specific absorption rate (<i>heat</i>) uW/m² microWatt per metre squared (<i>power density, heating</i>) W/kg Watts per kilogram (<i>SAR heat</i>)</p>	<p>PHYSICAL AGENTS</p> <p>CME coronal mass ejection (<i>geomagnetic field</i>) EF electric field ELF extremely low frequency EMF electromagnetic field GEC global electrical circuit (<i>atmospheric electricity</i>) MF magnetic field RFR radio frequency radiation VHF very high frequency VLF very low frequency</p> <p style="text-align: center;">PRINCIPLES</p> <p>ALARA as low as reasonably achievable NOEL no observable effect level PP precautionary principle</p>
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ELECTROSENSITIVITY: KEY FACTS

CONSCIOUS SPECIFIC SYMPTOMS

- Anxiety
- Asthma
- Cancer
- Confusion
- Cramp
- Depression
- Diarrhoea
- Dizziness
- Fatigue
- Hair loss
- Headache, brain pain
- Heart palpitations
- Indigestion
- Irritability
- Light sensitivity
- Memory loss
- Menstrual changes
- Muscle/nerve pains
- Nausea
- Noise sensitivity
- Nosebleeds
- Restless legs
- Sinusitis
- Skin rashes
- Sleep disturbance
- Smell sensitivity
- Thirst, Tics, Tinnitus
- Visual effects

SUBCONSCIOUS SYSTEMIC EFFECTS

- Brain wave disturbance, especially Alpha
- Cancer: bioelectrical dysregulation, DNA breaks
- Cell cycle disturbance, mitochondrial dysfunction
- Cell membrane depolarisation, ion channel effects
- Fertility reduced, changes in offspring, more females
- Heart: changes to rate, variability, cerebral perfusion
- Immune system changes: chronic inflammation
- Nervous (peripheral and central) system effects:
 - Demyelination, axonal and microglia
 - Hippocampus: enzymes, proteins
 - Hormonal: cortisol, testosterone
- Skin: mast cell degranulation, allergic sensitivity

CAUSES

- Bluetooth, TETRA, Wifi
- CFLs, LEDs, transients
- Cordless DECT phones
- Mobile phones, masts
- Powerlines, transformers
- Smart meters, Fitbits

MECHANISMS

- Cilia. Cryptochromes
- Demyelination. DNA signalling
- Genetic variants. Glial/synapses
- Magnetite. NALCN, Pineal gland
- Radical pair mechanism
- Voltage-gated ion channels

PATHWAYS (cf. chemical toxins, ultrasound)

- Antioxidant glutathione. Metabolism
- Hormones: melatonin, thyroid
- Metal implants, dental amalgam, fluoride
- Oxidative stress (like ionising radiation)
- Protein expression: ERK, Hsp70, p53 etc.
- Signalling: Ca, CaSR, NMDA, T cells, TGF

ILLNESS AND FUNCTIONAL IMPAIRMENT FROM EHS

- Electrical Hypersensitivity (EHS), established since 1746, is an environmental systemic spectrum syndrome.
- EHS is caused by the patient's exposure to RFR/EMF.
- EHS makes people ill with a range of symptoms which vary as the condition and its causes change in severity.
- Symptoms are disabling, causing functional impairment under the Health & Safety 1974 and Equality 2010 Acts.

EHS SYNDROME: CLINICAL DIAGNOSIS

- Clinical history: cause/effect from exposure/symptoms.
- The absence of symptoms when the RFR/EMF source is removed (positive reverse provocation testing).
- Multiple biomarkers, but only a few may be elevated or suppressed, depending on the precise stage of the illness.
- Brain perfusion and fMRI scans, where the potential benefits outweigh the health risk of an MRI scan.

PREVALENCE IN UK 67m POPULATION

- 0.65%, 435,500 people: work restricted because of EHS
- 1.2%, 800,000 people: severe electrical hypersensitivity
- 3.6%, 2.4m people: moderate electrical sensitivity
- 100% subconsciously sensitive (80% chronic inflammation).

TREATMENT: AVOIDANCE OF RFR/EMF

- Avoid RFR: e.g. masts, mobiles, smart meters, Wifi
- Keep: 10m from mobiles in use, 100m from Wifi
- Live: 500m from masts, 600m from powerlines
- Protect sleep: e.g. military nets, shielded rooms.

NON-IONISING (RFR/EMF) and IONISING RADIATION

Both cause oxidative stress and cancer; sensitivity varies. 24 hours of mobile phone harms DNA like 1,600 X-rays. Both: primary non-thermal effects, thermal secondary. Both: hormetic (change low/high dose), no threshold.

RESEARCH INTO ES AND EHS

Started in 1730, Royal Society London. Centres include: ARTAC Paris, Breakspear Herts, EMC Dallas USA, DARPA Caltech USA, HUSM Lleida, CES Moscow, UC San Diego USA, Toronto WCH, JMU Virginia, USA.

ICD-10 CODES

- ICD-10: W90.0 – RFR; W90.8 – ELF, etc for its cause.
- EHS, known since 1746, still lacks its own ICD-10 code.

W.H.O. STATEMENTS ON EHS AND EPh

Backgrounder 296 (2005) states EHS can be disabling, but is outdated and wrong on aetiology, confusing two different conditions, EPh (IEI-EMF) and EHS.

EPh: DIFFERENT CONDITION FROM EHS

Psychological Electrophobia (EPh, nocebo effect, IEI-EMF), known since 1903, affects 1% of EHS people. EPh's prior conditioning cannot apply to EHS children and unaware adults. 'Front' groups confuse EPh with ES.

NATURAL RFR/EMF EFFECTS

All life in the Earth's biosphere is electrically sensitive to natural geomagnetic and global electrical circuit changes at levels far below most man-made electrosmog.

ELECTROSENSITIVITY: KEY FACTS

MAINSTREAM NON-THERMAL & THERMAL SCIENCE

- scientifically based proof, from evidence
- established long-term and short-term non-thermal and heating adverse effects, known since 1733
- protective: prevents ES symptoms, e.g. cancer, EHS
- protective of all wildlife in earth's biosphere
- mainstream, independent, unbiased scientists.

INTERNATIONAL SCIENTIFIC GUIDELINES

Bioinitiative 2012, Building Biology (sleeping areas) 2015, EUROPAEM 2016, IGNIR 2018, Seletun 2010

IMPARTIAL MAINSTREAM ORGANISATIONS USING ESTABLISHED SCIENTIFIC EVIDENCE

These organisations include experts on real ES.

Bioinitiative Group <https://bioinitiative.org>
 EHT: Environmental Health Trust, USA <https://ehtrust.org>
 EMF Scientist: International EMF Scientist Appeal [link](#)
 EPA: Environmental Protection Agency, USA
 ES-UK: Electrosensitivity UK <https://www.es-uk.info>
 EUROPAEM: European Acad. for Environ. Medicine [link](#)
 IARC: International Agency for Research on Cancer [link](#)
 ICBE-EMF: International Commission on the Biological Effects of Electromagn. Fields (ICBE-EMF) icbe-emf.org
 IEMFA: International EMFs Alliance <https://www.iemfa.org>
 IGNIR: Internat. Guidelines on Non-I. Rad. <https://ignir.org>
 NTP: National Toxicology Program, USA [link](#)
 PHIRE: Physicians' Health Init Rad. & Envir. phiremedical.org

ARBITRARY, UNSCIENTIFIC THERMAL-ONLY CLAIM

- arbitrary and unscientific claim: no proof, no evidence
- based on Schwan's invalidated short-term heating-only myth of 1953, confirmed as unscientific in 1957
- unprotective, allowing ES symptoms e.g. cancer, EHS
- unprotective of all wildlife in earth's biosphere
- used as a 'front' for the radiation industry cartel.

ARBITRARY, UNPROTECTIVE THERMAL GUIDELINES

FCC 1998, ICNIRP 2020

'FRONT', 'SHAM' AND SINGLE-VIEWPOINT GROUPS INCLUDING USE OF ARBITRARY EVIDENCE, UNPROVEN DENIALS, 'JUNK' OR FLAWED SCIENCE

No experts on real ES, only on the different condition EPh.

AGNIR: (1990-2017): Public Health England (PHE)'s Advisory Group on Non-Ionising Radiation, *part of*
 DHSC: Depart. for Health & Social Care; *agency: UKHSA*
 UKHSA: Health Secur. Ag.; *under DHSC; advises Ofcom/DCMS*
 COMARE: Comm. on Med. Aspects of Radiat. & the Envir.
 FCC: Federal Communications Commission, USA
 GLORE: Global Coord. of Res. & Health Pol. on RF EMFs
 ITU: Internat. Telecommunications Union: *UN agency*
 SCHEER: *Eur.Comm: Sci. Comm. on Health Env & Em Risk*
 ICNIRP: Int. Comm. on Non-Ioniz. Rad. Prot.: *WHO agency*
 WHO: World Health Organizat. EMF Project: *UN agency*
WHO is subject to Int. Atomic Energy Agency (IAEA); IAEA is subject to Int. Comm. on Radiol. Prot. (ICRP)

Radio Frequency Radiation Guidelines

	Background level	Non-thermal and Thermal Long- and short- term, 4 - >24 hours. Peak			Thermal only Short- term only, 6 - 30 minutes. Averaged		
	Safe	Scientific, Protective, Humans and Wildlife			Arbitrary, Unscientific, Unprotective, no Wildlife		
	Johansson et al. 1997	USSR 1935	Bioinitiative 2012	EUROPAEM, IGNIR 2016, 2018	USA Schwan 1953	USA, ICNIRP 1982, 1998	ICNIRP 2020
V/m	~ 0.0000002	6	0.03 - 0.05	≤ 0.002 - 0.2	194	61	≤ 123
uW/m ²	~ 0.0000000001	100,000	3 - 6	1 - 100	100,000,000	10,000,000	≤ 40,000,000
dbm	< -90	-1	-46 to -43*	≤ -70 to -31*	+ 29	+ 19	≤ + 25
W/kg	< 0.00002	Seletun	2010	0.0003	1980, 1984	0.08 whole body, 1.6/2.0 head, 4.0 limbs	

*The threshold for mobile phones (5G, 4G, 3G) is much lower, at -100 dBm.

HISTORY: SCIENCE

1733: ES: non-thermal adverse symptoms, EMF
 1746: EHS: hypersensitivity specific symptoms, EMF
 1893: ES: specific non-thermal adverse symptoms, RFR
 1930: Non-thermal effects primary, heating secondary
 1932: EHS: hypersensitivity specific symptoms, RFR
 1945: ES symptom of cancer from non-thermal RFR
 1945: Non-thermal RFR used by military in warfare
 1991: ES shown in provocation tests, screened subjects
 2014: Genetic variants associated with EHS
 2015: Cerebral blood hypoperfusion in people with EHS
 2017: 3d fMRI scans show brain damage in EHS people
 2018: NTP study confirms mobile phones cause cancer

HISTORY: REGULATORY

1935: First RFR guidelines, non-thermal and thermal
 1974: Health & Safety at Work Act protects ES workers
 1990s: Insurers: RFR high risk only, like cancer asbestos
 2001: IARC classifies ELF EMF as a 2B cancer agent
 2002: WHO/ICNIRP recognise 'sensitive' ES people
 2006: UK employers remove RFR for ES people
 2010: Equality Act protects people disabled by ES
 2011: IARC classifies RFR EMF as a 2B cancer agent
 2012: NHS GPs and consultants diagnose real ES
 2012: Courts accept ES and award compensation/fines
 2013: H&S Act: local authority duty to improve health
 2021: Court: ES person is interested party in siting mast

E(H)S = Electromagnetic (Hyper)sensitivity EMF = Electromagnetic Field(s) RFR = Radio Frequency Radiation