



Eileen O'Connor

UK Radiation Research Trust

Charity Director



C4ST meeting. Tuesday, January 24th 2023

Overview of The UK EM Radiation Research Trust Charity

<http://www.radiationresearch.org>





Eileen O'Connor - From small village battle against a Phone Mast to International Campaign.

- Co-founder and Charity Director for the Radiation Research Trust (RRT) 2003 to date: www.radiationresearch.org
- Co-founder and Board member for the International EMF Alliance 2009 to date: <http://www.iemfa.org>
- Previous Member of the European Commission Stakeholder Dialogue Group on EMF (helped the EU Commission to form group) 2011 – 2014
- Previous Member of UK Health Protection Agency – Radiation Protection Division EMF Discussion Group Chaired by Sir William Stewart HPA Chairman 2006-2008
- Co-Founder and Chair of SCRAM (Seriously Concerned Residents against Masts) 2002 – 2005





Wishaw, Sutton Coldfield Phone Mast Cancer/illness Cluster

I suffered for years with sleep problems, headaches, dizzy spells and vertigo only to be told by my doctors that it was stress or a virus. I eventually developed breast cancer at the age of 38 and discovered that I was living in a cancer cluster.

I had been living 100m from a phone mast/cell tower for 7 years and I now realise the symptoms reported to my doctor are known as a condition called Electrosensitivity. I have since campaigned for 20 years after discovering the cancer cluster in 2002.





Wishaw T-Mobile mast 2001 the story unfolds

- Five ladies developed breast cancer
- One case of prostate cancer
- One bladder cancer
- One lung cancer
- Three cases of pre-cancer cervical cells
- One motor neurone disease, age 51, who also had massive spinal tumour
- People developed benign lumps
- Electro sensitivity
- Three cases of severe skin rashes
- Many villagers suffering with sleep problems, headaches, dizziness and low immune system problems
- Horse with blood problems, under continuous vet treatment



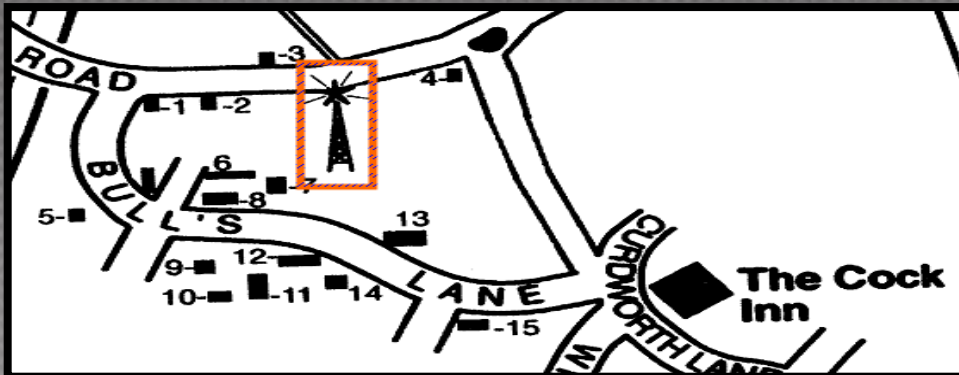


Removal of phone mast November, 2003

The T-Mobile Wishaw phone mast 1994-2003

- Many of the residents reported a restored feeling of well-being, improvement in sleep patterns and increased energy levels. Simple things like headaches and dizzy symptoms disappeared

Map of 18 houses in small village up to 500m surrounding the mast. It was calculated that 77% of residents suffered with symptoms associated with radiation from the mast.





T-Mobile claimed the Wishaw phone mast was safe without disclosing details for the T-Mobile ECOLOG report from Germany

2000 same year as Stewart Report

The ECOLOG review of over 220 peer reviewed and published papers found evidence for:

- Effects on central nervous system
- Cancer initiating and promoting effects
- Impairments of certain brain functions
- Loss of memory and cognitive function

•Ecolog called for an immediate downward regulation for the ICNIRP guidelines

This study, profound in its conclusions of harm, was not circulated and only remained in German until discovered and translated by HESE UK many years later.

***The ECOLOG Report was not made available to residents in Wishaw as we desperately sought truth in science amidst a cancer cluster, and T-Mobile quoted only from The Stewart Report.**





Half of the entire population in the UK will develop cancer over their lifetimes according to current UK NHS Overview-Cancer

The 4 most common types of cancer are:

- [breast cancer](#)
- [lung cancer](#)
- [prostate cancer](#)
- [bowel cancer](#)





Epidemiological Evidence for a Health Risk from Mobile Phone Base Stations

Worldwide list of all peer-reviewed scientific studies of human health around mobile phone base stations, as of end May 2020. Out of 33 studies, 32 (or 97%) report health problems.

<https://www.radiationresearch.org/wp-content/uploads/2023/01/scientific-studies-of-human-health-around-mobile-phone-base-stations.pdf>

The only study that did not find problems, is highlighted by Martin Roosli in his review on masts for ICNIRP. A study of cancer in Bavaria that by its own admission did not have sufficient controls.

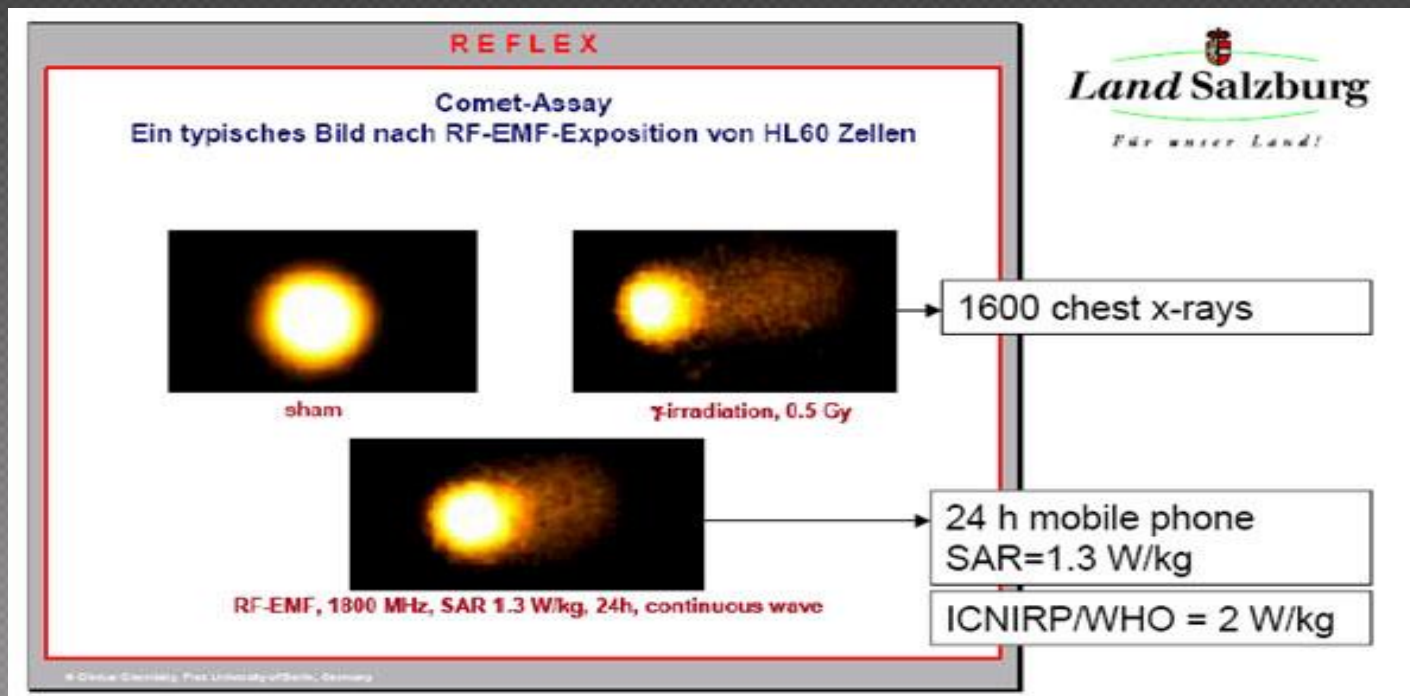


REFLEX STUDY - from 2000 to 2004

Radiation from Mobile Phones damage DNA. Study cost more than 3 million euros and involved 12 research groups in 7 European countries.

The project showed that ELF-EMF had genotoxic effects on primary cell cultures of human fibroblasts and on other cell lines. The image below is of an unexposed (sham) cell and a cell showing damage after 24h exposure to mobile phone radiation. This is similar to damage of cells exposed to 1600 chest x-rays.

https://ehtrust.org/wp-content/uploads/REFLEX_ProgressSummary_231104-1.pdf





Palace of Westminster 2008 Conference

The Radiation Research Trust brought together leading experts in the fields of science, politics and regulation from across the globe to debate the health effects of electromagnetic fields. This was the first time that such a conference was organised to include experts from both sides of the health debate.

<https://www.radiationresearch.org/rrt-archives/conferences/2008-conference-presentations/>





ICNIRP

Previous Chairman for ICNIRP Paolo Vecchia presented at the EM Radiation Research Trust conference in September 2008. In his presentation, he made it clear that: “the ICNIRP guidelines are neither mandatory prescriptions for safety, the “last word” on the issue nor are they defensive walls for Industry or others.”

An ICNIRP ‘certificate of safety’ does not provide any level of protection for industry or government decision makers.

EXPOSURE GUIDELINES

What they are

- Living documents subject to ongoing review
- Advice based on comprehensive reviews of the science
- Frameworks for practical radiation protection policies
- Summaries of (but not reviews of) the science
- Advisory quantitative limits (basic restrictions) on exposure
- Field (reference levels) values for hazard assessment
- One scientific input into the formulation of societal policies

What they are not

- Mandatory prescriptions for safety
- The “last word” on the issue
- Defensive walls for industry or others

McKinlay 2002



EMF & HEALTH - A GLOBAL ISSUE

London, UK, 8-9 September 2008





2009 - Norwegian Conference

Worked with the Norwegian team to help organise an international conference in Stavanger and an event in Seletun Norway, November 17th, 2009

Scientists from around the world attended to exchange views resulting in the Seletun paper calling for lower EMF standards.

I worked with fellow health activists to form the International EMF Alliance:
<https://www.iemfa.org>





Commonwealth Club of California

2010 November – Presented at
Commonwealth Club of California

Health Effects of Electromagnetic
Fields” Video footage from the
Commonwealth Club EMF Program,
Nov 18, 2010, posted on
ElectromagneticHealth.org Video
and slides:

<https://electromagnetichealth.org/electromagnetic-health-blog/cc-video/>





December 2011 - Hand delivered a copy of the Smart Meter, Smarter Practices Report to Number 10 Downing Street, London.

<https://www.radiationresearch.org/articles/smart-meters-smarter-practices-document/>

Picture from left features Mike Bell, Joe Benton MP, Eileen O'Connor, Bill Esterson MP and assistant, Dr Erica Mallery-Blythe, and Brian Stein





In 2011 members of IARC classified the entire RF/EMF spectrum as 2B Possible Human Carcinogen

The International Agency for Research on Cancer (IARC) is a sub-group of the World Health Organization with its role to monitor and identify global causes of cancer. In 2011 members of IARC classified the entire RF/EMF spectrum as '2B Possible Human Carcinogen'

IARC with collective judgment found scientific consensus in reaching decision. The vote was nearly unanimous: 29 to 1.

https://www.iarc.who.int/wp-content/uploads/2018/07/pr208_E.pdf

Many doctors and scientists are now calling for an urgent upgrade the classification of RF - EMF from 2B to **Group 1 (Known Carcinogen)**, the same category as tobacco. Dr Hardell stated unequivocally:

"The agent is carcinogenic to humans."





The evidence of increased cancer risks has since been strengthened by further human studies, as well as toxicology studies in animals , which demonstrated clear evidence of tumours.

The \$30 million US National Toxicology Program (NTP) RF studies and the Italian Ramazzini Institute ten year research project both found clear evidence of malignant tumours. Two different institutes with laboratories in different countries, totally independent of each other and both producing parallel consistent findings, reinforces the validity of these ground-breaking animal studies.





The BioInitiative Working Group

- **Bioeffects have clearly been established to occur with very low exposure (non-thermal levels) to electromagnetic fields and radiofrequency radiation according to many doctors and scientists. The BioInitiative Working Group reviewed thousands of peer reviewed scientific papers. This group of experts calls for the precautionary approach and urgent action due to chronic EMF-related diseases that are a potential risk for everyone. These diseases include adverse effects on the central nervous system, cancer, both initiating and promoting effects, impairments of certain brain functions, loss of memory and cognitive function, infertility, and immune dysfunction.**
- <https://bioinitiative.org/>





Russian Research

2012 Visited Professor Yury Grigoriev, Previous Chairman for the Russian Radiation Federation, Moscow and Professor Oleg Grigoriev, the current Chairman for the Russian Radiation Federation.

Russian research offers crucial and important information that conveys a sense of urgency for the global RF/EMF framework.

Russian warnings exist urging pregnant women to avoid using mobile phones entirely along with children under eighteen. Professor Yury Grigoriev said: **"Man conquered the Black Plague, but he has created new problems - EMF pollution"**



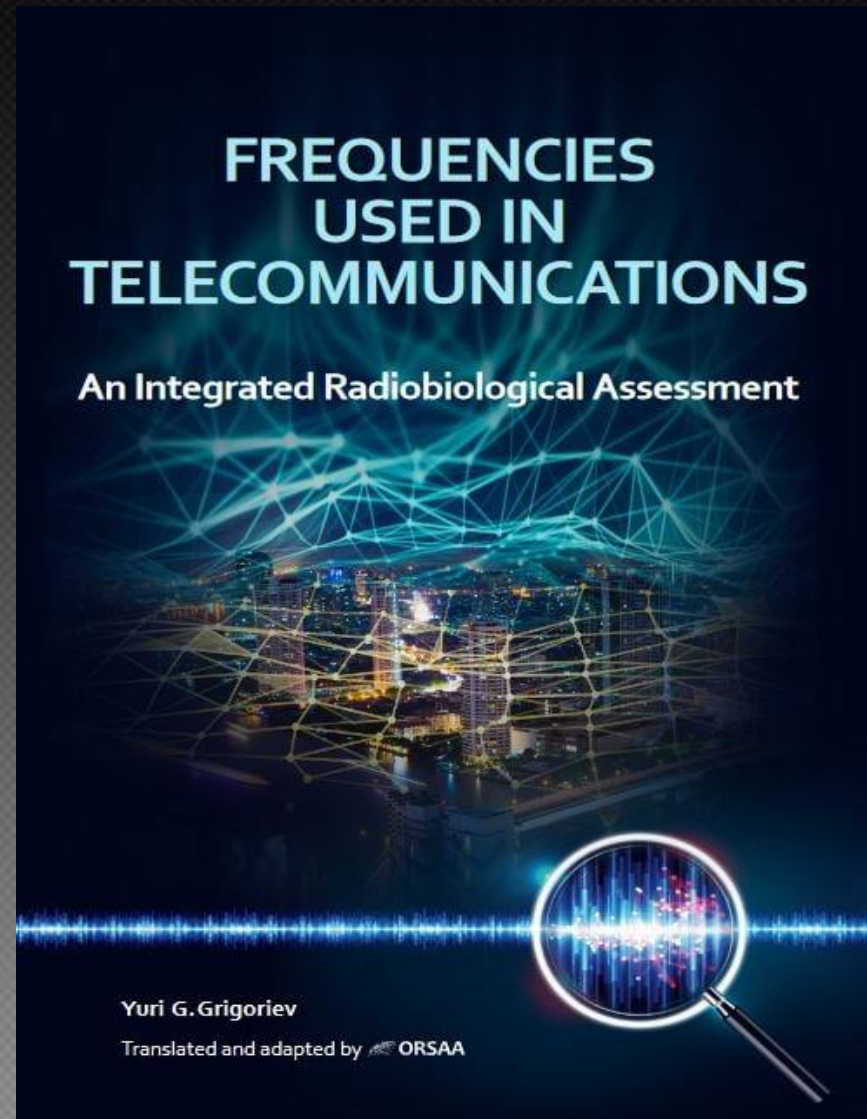


FREQUENCIES USED IN TELECOMMUNICATIONS

**Important book free to
download from the late
Professor Yuri G.
Grigoriev**

**An Integrated
Radiobiological
Assessment**

**Translated and adapted
by the ORSAA*
translation team**





And now they are rolling out 5G?

There is enough evidence associated with 2G, 3G, and 4G to call for the precautionary principle to protect public health and now they are now rolling out 5G. The whole population will be exposed to untested and unregulated radiation and without any public agreement.

Its time to demand accountability for the imposition of this technology in every corner of our lives, and time to demand accountability on the part of the individuals who are voting to put this technology in place without a single safety test having been conducted for 5G as established by US Senator Blumenthal during Congressional hearings on 5G.





First Study so Far: 5G Causes the Microwave Syndrome

[The first 5G study](#) by Dr Lennart Hardell and Mona Nilsson was published in the journal Medicinsk.

This study also recorded a massive increase in microwave radiation.

The symptoms are typical of the microwave syndrome: fatigue, difficulty sleeping, emotional impact, nosebleeds, increasing tinnitus, sleep disorders and dizziness, skin problems (burning sensation, tingling in the skin of the hands and arms), concentration problems, irritability, impaired short-term memory, confusion, fatigue, tendency to depression, heart and lung symptoms (palpitations, heaviness over the chest) and feeling of warmth in the body.

<https://ehtrust.org/study-5g-causes-microwave-syndrome/>





The UK ICNIRP guidelines along with the US guidelines are outdated and obsolete

On Friday 13th August 2021 in the USA Robert F. Kennedy Jr's Children's Health Defense and the Environmental Health Trust successfully sued the FCC in a historic lawsuit against the FCC for ignoring 11,000 pages of scientific and medical evidence showing biological effects, so we can no longer rely on industry assurances of safety.

<https://ehtrust.org/environmental-health-trust-et-al-v-fcc-key-documents/>





RFK, Jr. Joins EM Radiation Research Trust in Calling Upon UK Prime Minister to Halt 5G Deployment

Robert F. Kennedy, Jr. and Dafna Tachover, Director of 5G and Wireless Harms Project of [Children's Health Defense](#) (CHD), signed onto the UK [EM Radiation Research Trust](#) (RRT) letter calling on UK **Prime Minister Boris Johnson** and political leaders to protect the public from the proven harms of wireless radiation and 5G.





Self-referencing authorships behind the ICNIRP 2020 radiation protection guidelines

- **There are concerns regarding government's use of the ICNIRP guidelines.**
- **'ICNIRP 2020 Guidelines fail to meet fundamental scientific quality requirements and are therefore not suited as the basis on which to set RF EMF exposure limits for the protection of human health. With its thermal-only view, ICNIRP contrasts with the majority of research findings, and would therefore need a particularly solid scientific foundation. Our analysis demonstrates the contrary to be the case. Hence, the ICNIRP 2020 Guidelines cannot offer a basis for good governance.' Einar Flydal et al. (2022)'**





ICBE-EMF group called for a moratorium on 5G.

- A peer-reviewed paper on October 18, 2022, presented a scientific case for revision of the ICNIRP limits. The International Commission on the Biological Effects of Electromagnetic Fields (ICBE-EMF) challenged the safety of current wireless exposure limits to radiofrequency radiation (RFR) and is calling for an independent evaluation. This new paper warns about the risks of exposure to radiation from 5G technology and claims that existing exposure limits for wireless radiation are inadequate, outdated, and harmful to human health and wildlife. The ICBE-EMF group reports that exposure limits for RF radiation set by ICNIRP and the FCC are based on invalid assumptions and outdated science.**





Swiss Re SONAR Emerging risk insights Report - June 2013 and 2019

Unforeseen consequences of electromagnetic fields **Potential impact** rated as **HIGH**.

Concerns about potential implications for human health, in particular with regard to the use of mobile phones, power lines or antennas for broadcasting. Over the last decade, the spread of wireless devices has accelerated enormously.

Off the leash 5G mobile networks - impact **HIGH**

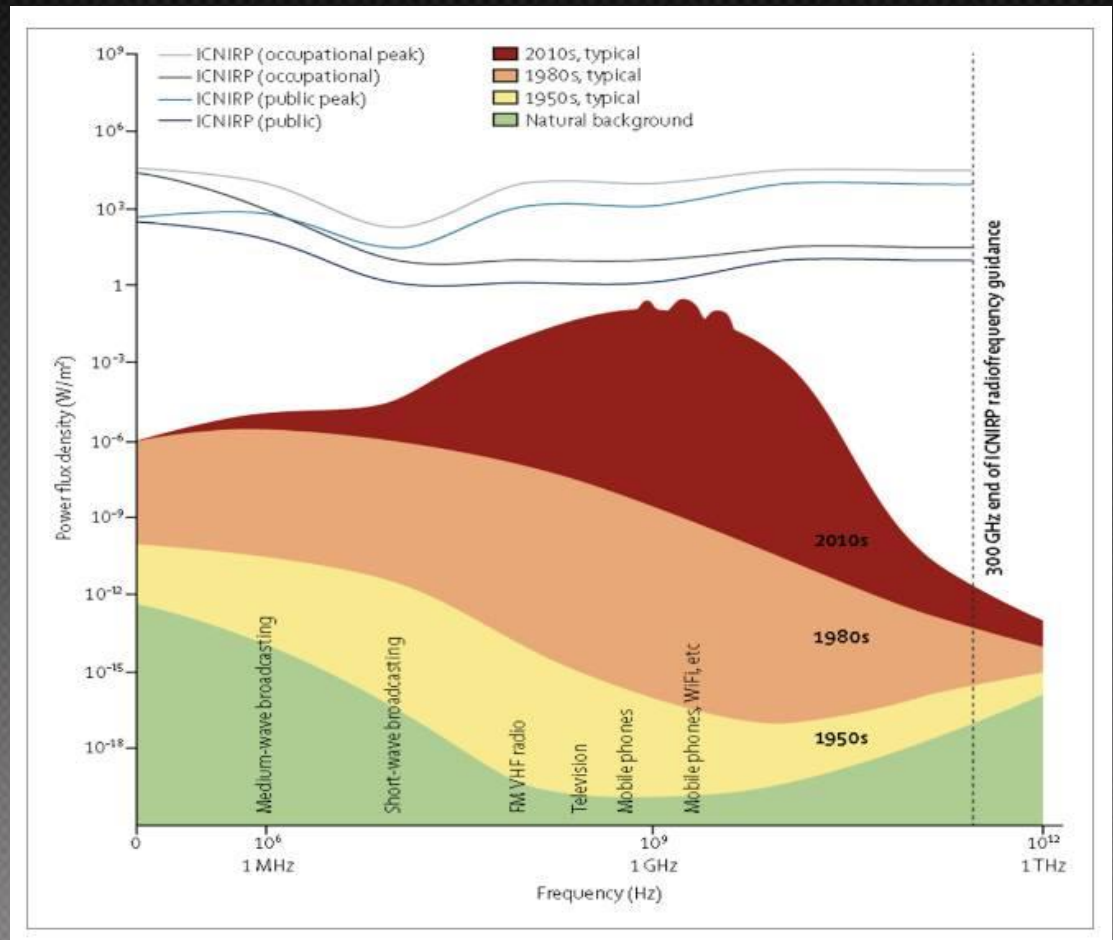
Ref: <https://www.swissre.com/institute/research/sonar/sonar2019.html>





The 2020 Consensus Statement

PHIRE (Physicians' Health Initiative for Radiation and Environment) was launched in November 2020 and signed by groups representing > 3500 medical doctors. The statement clarifies the medical community's serious concerns surrounding the deployment of 5G and the continued use of Radiofrequency Radiation in public spaces. The Consensus statement calls for urgent action to protect the health of humans and wildlife.





Six Italian Courts Have Ruled Cell Phones Cause Brain Tumors

On Jan. 13, 2020, Turin's Court of Appeals confirmed a 2017 decision determining that a former Telecom Italia worker's acoustic neuroma (a benign tumor in the ear) was caused by his mobile phone use. This is the sixth time that an Italian court has affirmed a causal link between cell phone use and brain tumors, including decisions by the High Court of Italy.

Studies indicating that individuals who speak on their phones for an average of 30 minutes a day for at least 10 years increase their risk of developing head tumors.

Ref: <https://childrenshealthdefense.org/news/six-italian-courts-have-ruled-that-cell-phones-cause-brain-tumors/>





UK social worker won ‘early ill health retirement’ for disabling ‘Electromagnetic Hypersensitivity’

In June 2022, a 59-year-old UK social worker won ‘early ill health retirement’ for disabling ‘Electromagnetic Hypersensitivity (EHS): In relation to EHS, the Independent Registered Medical Practitioner (IRMP) report concludes: “Mrs. Burns has a medical condition that renders her permanently incapable of undertaking any gainful work. There currently are no treatments available for her condition; avoidance of emissions is the only way to significantly reduce her symptoms.” Whilst such emissions were historically presumed to be biologically inert and are still purported to be safe by many to this day, there is now highly credible evidence to the contrary.

<https://phiremedical.org/59-year-old-social-worker-wins-early-ill-health-retirement-for-disabling-electromagnetic-hypersensitivity-ehs/>





Child suffers Electrosensitivity

August 2022

The case, EAM v East Sussex County Council (Special educational needs) features a child who suffers Electrosensitivity. Upper Tribunal Judge Jacobs found that the child should be considered disabled under the Equality Act 2010, and she required an Education, Health, and Care Plan (EHCP). **This ground-breaking legal decision is significant as it would be difficult for the City Council to shield children from exposure to radiation from a phone mast near a school should a child go on to develop or suffer with Electrosensitivity because of exposure to radiation from the mast.**

[Education Health Care Plan \(EHCP\) awarded \(Aug 2022\) for UK child on the basis of Electromagnetic Hypersensitivity \(EHS\). – Phire Medical](#)

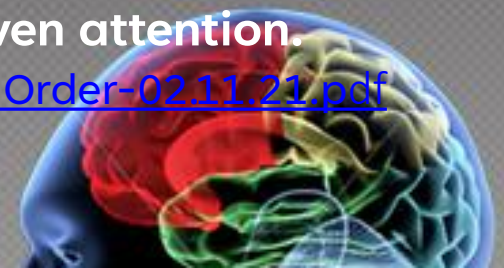




Queen's Bench Division, High Court of Justice, London with campaigners successfully claiming against Brighton and Hove Council with Hutchison 3G as the interested party

The Honourable Mr Justice Holgate overturned the local authority approval for the 5G mast to be sited close to a primary school. The ruling found that the Council “failed to address the health impacts” of the mast. The Council was ordered to pay the claimants costs to the agreed sum of £13,340. This finding has significant implications for all councils dealing with 5G applications, it means there is a legal responsibility to investigate effects on health. The ruling highlighted the fact that the council failed to address health impacts of the proposed mast and to obtain evidence of the assessment of the proximity to the school. Sitting and appearance, are also still a ‘material planning consideration’ under prior approval and must be given attention.

<https://rfinfo.co.uk/wp-content/uploads/2021/11/Consent-Order-02.11.21.pdf>





Property owners renting space for towers responsible for health consequences

A **German court** has clarified in a lawsuit that property owners who rent space for base stations and mobile towers assume responsibility for health consequences of the activity. Although the radiation is lower than the relevant reference values from the authorities, this does not mean that the property owner is not responsible for negative health consequences.

According to Björn Gillberg, the same responsibility principles also apply in Sweden.

<https://www.emfacts.com/2022/07/german-court-finds-property-owners-can-be-liable-for-health-impacts-from-base-station-antennas-on-their-property/>





**UK Court Hearing
scheduled, London
6th & 7th February 2023.**

**The Secretary of State is to
be challenged in the Court
of Appeal on failure to give
adequate information to the
public about the risks of 5G
and to explain the absence
of a process for
investigation of any adverse
health effects. Michael
Mansfield QC, Philip Rule
and Lorna Hackett of
Hackett & Dabbs LLP
represent the claimants.**

<https://actionagainst5g.org/>



**'The king of human rights work'
Michael Mansfield QC
is taking another case.
This one is for YOU.**





5G Facts campaign

5G Facts & Myths

We exist to inform the public of the clear scientific evidence showing the adverse health effects and environmental damage that could be caused by electromagnetic radiation exposure including 5G.

5G EVENTS & UPDATES

TAKE ACTION

- EDUCATE YOURSELF
- RAISE AWARENESS
- VISIT YOUR DOCTOR
- WRITE TO YOUR MP
- SIGN RELEVANT PETITIONS

Visit the5gfacts.co.uk
for more information





WHO WILL BE HELD ACCOUNTABLE FOR DAMAGES ATTRIBUTABLE TO MOBILE PHONES & INFRASTRUCTURE?

We can no longer wait for public health officials and the government to take action. It time for the public to vote in favour of health and proceed with caution for the sake of us all, especially our children.

**Visit the UK EM Radiation Research Trust website for
More information: www.radiationresearch.org**

Thank you!

