

When to ban mobiles, masts and WiFi: 93% of studies show oxidative stress

Low-level radiation causes oxidative stress, according to 93% of studies. Wireless is thus linked with numerous diseases and illnesses, from Alzheimer's to autism. "We suggest minimizing the intensity and time of RFR exposures, and taking a precautionary approach towards wireless technologies in everyday human life." Some governments are encouraging their citizens to be exposed to this wireless toxin and thus to develop such illnesses, when the majority of independent scientists have long been warning of dire consequences. (Yakymenko I et al, Electromag Biol Med., 2015)

40% of adults are ES?

See inside for Prof. Marshall's stunning research about immune reactions among adults. Nearly half the adult population may be electro-sensitive and is being harmed by current environmental electrosmog.

ES recognised in legal cases

See inside for the first case in France for a court to award compensation to someone with EHS. In the USA parents have sued a WiFi school for \$¼M for causing ES symptoms in their child and there is a report that the school will settle out of court.

'Funcophobia' - prejudice against functionally varied people

The Swedish Academy, responsible for the Nobel Prize in Literature, has entered 'funkofobi' into their official word list of the Swedish language. 'Funcophobia' is defined as: 'prejudice against people

with functional variations'. "This is a huge step forward for all disability groups, including persons with the functional impairment electrohypersensitivity." (Prof. Olle Johansson, August 2015)

WHO chief: "I immediately get a headache"

Dr Gro Harlem Brundtland, former WHO director-general and prime minister of Norway, said to Aftenposten: "There are definitely negative aspects to the radiation that affect us humans ... I could not have had the phone next to my head. Never. I can't have the radiation close to my head. If I do, I immediately get a headache. My body has reacted like this to cellphone radiation for, well, approximately 25 years ... But I would say: Shield yourself! Don't keep your phone in your pocket! ... this is not an innocent technology; these devices emit radiation. So keep it at a distance." (Folkets Strålevern: "Ex-WHO General Director Warns: 'Wireless Technology has Health Effects There is no Doubt'", 20 August 2015; English by Citizens' Radiation Protection, Norway; www.youtube.com/watch?v=ISsQSwiWl2E)

WHO - will it resist industry pressure in 2016?

The World Health Organisation intends to produce yet another scientific review in 2016. It needs to do so, since its notorious and invalidated 'factsheet' 296 of 2005 confuses electrosensitivity with the different condition of electrophobia. See inside for reports on the 2015 Brussels Conference which showed some of the physical aspects of

ES, and Prof. Pall's latest paper on established neuropsychiatric effects from EM exposure.

Europe's scientific crisis: EM is established cancer promoter

The EU has so far failed to deal effectively with the pro-industry bias in Europe's SCENIHR report of 2015. This one-sided report from the minority of scientists still claiming EM is safe, downplays the new evidence of cancer from EM exposure. See inside for details of the damning critique by the International EMF Alliance which shows how almost every member of SCENIHR and its working group were seriously compromised by either links with the wireless and electrical industries or because they were of the minority scientific clique still claiming there is no significant harm from EM exposure or that ES is psychological.

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Sarah's climb – Well Done!



Congratulations to Sarah for reaching the summit of Ben Nevis. She was being sponsored for ES-UK funds – there's still time to contribute. She has already gone way beyond her target of £2,000. This is in addition to all she does as a trustee for the charity and in administering the Helpline telephone service.



Sarah reports: "I climbed the 4400 feet high Ben Nevis Mountain track on Sunday 9



August with my very fit 26 year old son, to celebrate turning 60 years old! My partner had paid all of our accommodation and travel costs. Rain and low cloud cover did nothing to dent our enthusiasm for reaching the summit at about 6pm! The summit challenges include a 600 drop to one side and a 2,000 foot scree drop to the other with a 20 ft walkway between the two. A 'fit' 56 year old climber had fallen off the first of the two cliffs, two days before our climb and died! In the fog we could see the snow marking out the two hazards and it was an unnerving place to be. Our descent was more challenging than the uphill climb and my knees were burning with the exertion. Darkness fell at 9.50pm and I made it to the car park at 10pm in the dark, at the end of a very intense physical challenge. I am delighted to confirm that donations and pledges now total £3110, it was a worthwhile exercise."

Scottish refuge

As mentioned by Brian Stein in his last letter, he and others are hoping to set up a retreat centre. See under Refuges, or contact him directly.

Contacting NHS surgeries:

Thanks to a very generous donation, an information leaflet about electrosensitivity has been sent to via a commercial contact service to all 10,000 NHS surgeries in the UK. There are still many GPs who lack knowledge about ES.

Electrosensitivity access to hospitals

Equal access to hospitals and surgeries is becoming a major barrier to people with electrosensitivity. The Department of Health claims it is powerless to enforce equal access. It is therefore left up to individuals, often very ill, to attempt to make acceptable arrangements. More advanced countries like Sweden provide shielded areas for people with ES functional disability. It would be good if the UK could catch up on best practice.

WiFi in NHS premises?

An article by Victoria Betton headed "Should all NHS premises provide free access to wi-fi?" published in the British Medical Journal on 12 August caused controversy. There were some excellent responses online, including some by ES-UK trustees Phil Watts and Dr Andrew Tresidder. The original article assumed that "lack of access to public wi-fi in healthcare settings" is a barrier, whereas those who know the established harm caused by WiFi consider it obvious that it should never be used, especially in a healthcare setting. Dr Tresidder wrote: "Consideration for people who are ES will ensure a precautionary principle is used,

and should ensure that all NHS premises provide designated shielded clinical and care areas where signal is at a minimum as measured by detectors - this will include attending staff putting devices onto airplane mode. Education about the issue is important, otherwise health staff will manage the affected person to the detriment of their health."

Phone mast harm: when will the government act?

Now that 80% of studies show medical harm, including cancers and neurological illnesses as well as EHS, from living within some 500 metres of a phone mast, it seems extraordinary that the government has not yet introduced legislation to protect its citizens. At present medical opposition to such the government's absurd attitude is being quashed and local councils consider that they are not allowed to prevent such inappropriate siting of masts, or are not prepared for the legal bill if they do. See below on this growing catastrophe.

Report by Peter Gane: 'The Inconvenient Reality'

On Saturday 26 September over 80 people descended upon the Somerset village of Compton Dundon from as far away as Scotland, Yorkshire and London to attend an event entitled 'Can Wireless Technology Affect Our Health and Fertility? The Inconvenient Reality'. Organised by ES-UK supporter Peter Gane and Jo Stallard, CEO of the charity Foresight-Preconception, attendees included medical doctors and complimentary therapists eager to learn more of the health impact of wireless technologies and EMF's from the excellent speakers. Barrie Trower, retired military microwave warfare expert started the day, followed after lunch by Somerset GP Dr Andrew Tresidder and



Brian Stein CBE, both trustees of ES-UK. I would like to thank all of you who helped so much, in so many ways, to make this day such a success. Ripples from this event are spreading far and wide, who knows on what shores they may end up. A DVD, even sought from New Zealand, should soon be available; please contact Peter Gane on 01935 423002. Inspired by the endeavours of Sarah Dacre's Ben Nevis Challenge, next year I plan to get fitter and celebrate my 70th year by walking 70 miles in 7 days to further raise ES awareness and ES-UK funds. Anyone who fancies joining me for some of the way, or provide financial encouragement, please be in touch.

(Photo from left: Andrew Tresidder, Jo Stallard, Barrie Trower, Peter Gane, Brian Stein)

Thanks for writing!

Thank you again to all supporters who write to MPs, MEPs, unaware doctors, school governors and heads, company directors, and many more, who are not yet up to speed on the established health dangers of EM exposure. The message is getting through, both in the UK and increasingly around the world. We now await action to safeguard children, the elderly, the ill and ES sufferers.

Thanks to ES-UK!

"The Newsletter is very valuable. Thank you for all your work." "Keep up the good work as the ES-UK Newsletter is a lifeline for all of us – and hopefully ES-UK's efforts will be rewarded to make a better quality of life for us all. Thank you for all your great work."

"I just wanted to say a big thank you for all the work you do for this charity. It has been a godsend to find there are other people like me out there, and be able to locate help easily and quickly, particularly when time on the internet is so restricted."

Hearing aids: wireless features

Some parts of the NHS now use the Siemens Octiv hearing aids. These can have two wireless frequencies, for ear-to-ear through the head linking the two hearing aids, and far-field communication with other wireless devices. The ear-to-ear link uses a technology introduced in 2004 with Near-Field Magnetic Induction (NFMI) at 3.28MHz, with -6 dBuA/m at 10m and 28.5 dBuV/m at 30m. "NFMI operates within a frequency band that easily propagates through and around the human head and body. This ease of propagation allows for ear-to-ear communication between hearing aids, providing the convenience of synchronized adjustments to memory or volume, as well as the benefits of binaural signal processing between hearing aids." The ear-to-ear link can apparently be turned off by NHS technicians. Far-field communication is by Bluetooth, often 2.45 GHz, streaming via Siemens miniTek, linking audio devices wirelessly to hearing aids. It can be used to control hearing aids and other gadgets. Bluetooth mobile phones link automatically to miniTek and laptops can be connected via Bluetooth, with a transmission range for Bluetooth (class 2) up to 10m.

NOEL EDMONDS ON ELECTROSMOG

Noel Edmonds: "biggest problem not Ebola, not Aids, but electrosmog"

TV star Noel Edmonds said: "Everything is about energy. We're surrounded by electro mist, fog and smog. We're covering ourselves in the wrong sorts of electro-magnetism. These idiot politicians who talk about climate change, for goodness sake, do they really think little us can do anything about it? No, of course not. The biggest problem we have is not Ebola, it's not Aids, it's electro smog. The Wi-Fi and all of the systems that we are introducing into our lives are destroying our own natural EM fields. All you are is energy, remember that." He has spent £2,000 on a gadget: "There is a device called an EMPpad and I use it eight minutes a day – it has changed my life. It recalibrates all the blood cells and readjusts the electro-magnetism in your body." (Mark Jefferies, Alex Belfield: "Noel Edmonds: Death doesn't exist - the planet's biggest problem is electrosmog", The Mirror, 4 August 2015)

"Edmonds claimed that electrosmog – clouds of EM fields caused by Wi-Fi, phone signals and electricity – is endangering humanity. It's making us electrosensitive, and systematically destroying our own natural EM fields." ("Electrosmog: the environmental threat that Noel Edmonds wants to save us from" The Guardian, 5 August 2015)

Interviewed on the Ray D'Arcy Show on Eire RTE Radio 1 (10 August 2015, 22 minutes), Noel asked the interviewer why the issue is not being debated, but the interviewer, whose radio station has a vested interest in keeping quiet about the dangers of radio, refused to reply. Noel pointed out that his EM therapeutic pad is not nocebo, since it is used in equine healing and "you can't kid a horse".

READERS' COMMENTS

Beware of household gadgets!

A reader's list of things which affect her: wireless door bells, digital cameras, cordless kettles especially when new, electronic toys, radio car keys, and household extension leads.

Christmas headache "presents"

"A friend bought her children a games console with a '3D' setting. They had been playing with the new toy for about only 15 minutes when they were both complaining of really bad headaches. My advice to her was to go straight back to the shop and demand her money back. She simply said: "Oh, in future they'll just use the game in '2D' mode.'"

Grounding sheet and wireless fire-alarms

"I have slept on a ground sheet since 2007 with no problems, until I found myself in care with wireless fire-alarms. These are the worst EMFs I have ever encountered. The sheet is now off my bed and I am feeling less tense and stressed. But I have a long way to go to recover. It has made me horribly ill."

Medical students and "my wonderful GP"

A reader writes:

"A few weeks ago my GP wrote to me asking if I would go down to the surgery to talk to medical students about ES. Obviously I was delighted to do so, and spoke to them for about an hour. They were very interested to hear about every aspect of this terrible condition. I have suffered for nine years and was able to tell them how my symptoms have worsened in that time and just how I have to live (exist).

One of the students said that he doubted if he could live the way I have to. I have a very outgoing nature but of course ES isolates you, which is very difficult. I went armed with Michael Bevington's "Summary" for them to read and also gave them a copy of the DVD "Desperately Seeking White Zone" which they were very keen to have and I'm hoping that they will pass it round for many more youngsters to see. Before I left the surgery I suggested that all the doctors at the practice should view it!

I count myself as very lucky to have a sympathetic GP. Right from the first time I went to see her nine years ago, at the onset of E.S., she has always listened to me patiently even though she had never heard of symptoms like mine. Through the years I have often sent her copies of our magazine, to keep her up to date, so she is well informed. I have also managed to get another of the GPs interested in ES because, when my GP was away, I had to see him on one occasion and he was very receptive. So the fight goes on to spread the word and I'm so pleased that I was able to play a small part in doing so, thanks to my wonderful GP."

Beware the tractors!

A reader reports on dizziness and thumping in the head while tractors with VHF or UHF walkie-talkies work into the night on adjoining fields.

Beware laptops with WiFi!

A driver reports asking a young passenger, using a laptop to watch a DVD film in the seat behind on a long journey, whether

the WiFi was still on. Once it was switched off the sharp continuous pain in the back right of the driver's neck gradually eased.

Beware LED lights!

"I've noticed that, after sitting under LED ceiling lights for about 30 minutes, sometimes my muscles twitch and I start feeling ES symptoms. Is it VHF from the LEDs? Do others find this too?"

Beware dirty electricity from light bulbs

Video on measuring dirty electricity from light bulbs:
www.youtube.com/watch?t=154&v=JaMJUllj4zs

Family times

Non-ES person: "I just needed to send a short text." ES person: "I know; I felt it."

iPad headaches and sneezes

A reader suddenly felt a sharp headache and noticed that the person sitting directly in front of him in a meeting sneezed loudly twice at exactly the same time. He looked round to find the



cause and saw that someone sitting three seats away to his left had just switched on an iPad.

BT chargecard

A reader uses this when phoning from call-boxes or other people's landlines, charging it to her home landline.

“This awful illness”

A poem by Beverly:

This is a tale about E.S. -
Seems no one's heard of it, I guess.
I don't tell others of my plight,
I'm sure they'd think I'm mad on sight.
My favourite café has WiFi now,
But, never fear, I'll survive somehow.

My partner uses all that stuff
But inside a café, or I'll just huff.
He keeps them in a shed at home
Because I'm very apt to moan.
He thinks it could be in my head,
Which makes me see so very red.

To visit family I go by train,
Which, as you know, can be a pain.
I've booked my seat so all is set,
But iPad use is all I get;
I change my seat - for goodness sake -
Now that my head begins to ache.

It's worth all that to see my son,
But he won't know what pain may come.

Sometime ago I had to move
Because my neighbour's flat “improved”:
He bought a lot of household gadgets
That came through walls, just like magic!
But now I'm in a lovely semi
Where there isn't quite so many.

I'd love to text my friends, like others;
I'm missing out, but no one bothers.
Let's hope a cure or something else
Will help us all be in good health.

Smartphone dangers for pacemakers

If you wear a cardiac device such as a pacemaker, keep away from smartphones. “Pacemakers can mistakenly detect EM interference (EMI) from smartphones as a cardiac signal, causing them to briefly stop working,” said Carsten Lennerz from German Heart Centre, Munich. (“Smartphones pose danger for cardiac device wearers” The Statesman, 22 June 2015)

Jason Day collapses from dizziness

“Jason Day, the No. 10 ranked player in the world, collapsed from dizziness caused by vertigo on

his final hole of the day. Day's agent, Bud Martin, said: “Jason was diagnosed to have



suffered from Benign Positional Vertigo. Three weeks ago, he was forced to withdraw from the Byron Nelson in Irving, Texas, complaining of dizzy spells. After that, he underwent a battery of tests that proved to be inconclusive. At least year's WGC-Bridgestone Championship, Day was forced to withdraw from his final round because of vertigo.” Day's wife, Ellie, said her husband has been dealing with the dizzy spells dating back to 2010. Day said: “I had three sleep studies done. I had a lot of blood tests done. I had an MRI on my head and my back and everything came back negative.” (New York Post, 19 June 2015) [Vertigo is a well-established ES symptom – Ed.]

DANGERS FROM WIRELESS POWER TRANSFER

Highways England: Wireless Power Transfer (WPT): appropriate medical advice?

Highways England (PR42/15) “Feasibility Study: Powering electric vehicles on England's major roads” (2015) concerns how to deliver WPT for re-charging electric vehicles as they drive along motorways. On page 48 it lists the heating-only limits from the 1990s still used by ICNIRP, but not ICNIRP's warning of 2002 that some people are more vulnerable and need biological limits below heating ones. It includes the EC Directive/2013/35/EU which concerns the sensitivity of some people passing through strong magnetic fields, but not the Radio Equipment Directive (RED) 2014/53/EU which requires that the use of all radio frequencies, often classified as from 3 kHz and upwards, should be safe, although WPT magnetic fields radiate at frequencies from 9 kHz up to 100 kHz, and are optimal at 20 kHz. Highways England needs advice from medical scientists who understand how some people are affected by strong radiated fields.

IN MEMORIAM

Prof. Dr. Anton Schneider, born 23rd February 1931, the pioneer and founder of Building Biology, died on 7th July 2015.

John Rogers – a tribute and thoughts about the ES issue

By Helen Corcoran, of County Kilkenny.
However you develop ES, by overloading your life with gadgets, or having your home polluted with microwave radiation from nearby masts, the end result is the same: your life is changed irrevocably. It can be like entering a long dark tunnel that gets progressively narrower and more constricting as the years pass. Goals you once had, before you realise the extent of the damage done, such as returning to work or education, have to be abandoned. New goals are getting a good night's sleep, avoiding headaches and eye inflammations and restructuring your life and lifestyle to try and avoid the ubiquitous radiation. When microwave pollution destroys your old life, you naively turn to officialdom expecting help from the powers that be; however, what you get is a cold hard indifference. If the darkness of that tunnel could be analysed, it would be made up of all the denials, all the stonewalling, all the polite blank refusals to help, verbal and written, from every government agency, from every social or community rights and human rights organisation. In addition there are all the sympathetic words and empty promises from politicians as they pass the buck, - all following the dense and closely woven dark lie of political policy, that microwave radiation is safe.

Yet in their darkness your encounter bright lights. These included the comradeship of the ES community and remarkable individuals who inspire you and guide you forwards. For me, John was one of those bright lights. Several years ago I contacted John, looking for guidance in a legal challenge I was trying to undertake. He subsequently got in

touch, twice, and in that final and lengthy call not only gave me the advice and help I needed, but also offered to be an expert witness should my court case ensue. He spoke about ES and his experiences, about science and how his love for the subject was fostered by his tutor and lecturer, Arthur C Clarke, from whose book the film "2001: A Space Odyssey" was made. As he continued I was struck by his humanity, generosity, courage and compassion. I was inspired to keep on fighting, just as he did.

I wanted to write back to him when I had news of success but battle after battle yielded nothing and the years passed. Hopes were constantly raised by new government and equality initiatives or petitions – great energy and effort was put into yet more submissions for justice – but like the court case nothing ever happened, while friends continued dying from microwave pollution. But they say the darker the night the brighter the star. Science is about life and the beauty of the stars, and gifted scientists like John who keep their integrity and dedicate their lives to scientific truth are part of that beauty. So next time I look up at the night sky I say thank you John, for your courage and kindness and wise words, for showing there is light at the end of the tunnel, and for illuminating the darkness for me and many others.

In Memoriam

"A mother of twin EHS girls, not knowing where to take refuge, with no hope of living without suffering, just committed suicide from the 5th floor of a building" (Next-up News 2965, France, 21 August 2015)

Karen Nold: EMF Victim and Educator

"We are saddened to announce the passing of Karen Nold, owner of the EMF awareness website MeansForChange.org. Karen was 43 years young and deeply affected by EMFs. She died of lymphoma, an illness closely linked with EMF exposure. She will be missed by many. Our condolences go out to her family and close friends." (Liz Barris, EMF Refugee, 6 August 2015)

INTERNATIONAL EHS CONFERENCE, BRUSSELS 5th Paris Appeal Conference, May 2015 There is a useful commentary by André Fauteux: "Electrohypersensitivity conference debunks 'nocebo effect' theory" La Maison du 21 Siècle, 25 June 2015. (<https://maisonsaine.ca/english/electrohypersensitivity-conference-debunks-nocebo-effect-theory.html#comments>)

Press Conference video
There is a video of the final Press Conference from Next-Up: http://videos.next-up.org/EhsTvNews/EHS_MCS_Appel_de_Paris_Conference_de_Presse/

Conference abstracts: 'nocebo effect' theory "debunked"
The abstracts from the Conference are available on <https://maisonsaine.ca>.

Conference recordings
Recordings of the individual lectures are available at: www.mast-victims.org/resources/audio/5th-paris-appeal/index.html

International Scientific Declaration on EHS and MCS Brussels, 4 Sept. 2015:
"Following the fifth Paris Appeal congress, which took place on the 18 May, 2015 and focused on environmental hypersensitivities,

the attending European, American and Canadian scientists unanimously decided to create a working group and to write a Common International Declaration to request an official recognition of these new diseases and of their sanitary consequences worldwide. The declaration calls upon national and international bodies and institutions and particularly the WHO, for taking urgently their responsibility for recognizing electrohypersensitivity and multiple chemical sensitivity as real diseases, including them in the International Classification of Diseases. This International Declaration also asks national and international institutions to adopt simple precautionary measures of prevention, to inform populations and requires the appointment of real independent expert groups to evaluate these sanitary risks in total scientific objectivity, which is not the case today.”

INTERNATIONAL SCIENTISTS' EMF APPEAL

This was a major appeal, representing the majority scientific viewpoint, to both the United Nations and the WHO.

“Even your Wi-Fi can cause cancer”

“More than 200 scientists from across the world ... have urged a UN body to issue necessary guidelines in order to restrict the use of radiation emitting devices, such as cellular and cordless phones, Wi-Fi, smart meters among others.” (“Even your Wi-Fi can cause cancer” Times of India, 12 June 2015)

Front Page News

The International Scientists' EMF Appeal featured as the top news story in What the Doctors Don't Tell You on 28th May 2015. Few other news organisations featured it in the UK.

CALIFORNIAN CONFERENCE

Environmental Health Trust: risks to children

“Cell Phones and Wireless Technologies—Should Safety Guidelines Be Strengthened to Protect Adults, Children and Vulnerable Populations? Should Parents, Teachers & Schools Restrict Technology Overuse Among Children?” This was the title of an Expert Forum on Cell Phone and Wireless Risks to Children held at the Commonwealth Club of California on 22 June 2015. See Electromagnetic Health and the Environmental Health Trust for speakers. The focus was on the special risks to children and other vulnerable populations. For some excellent videos, including Dr Erica Mallery-Blythe, see Electromagnetic Health: // electromagnetichealth.org/electromagnetic-health-blog/video-commonwealth-club-emf-forum/

REFUGES, WHITE ZONES, SHIELDED HOTELS

Plans for Scottish retreat centre

Brian Stein CBE, ES-UK trustee, announced in the letter with the August ES-UK Newsletter about plans to set up a retreat centre within a low-level RF area for ES people to visit, holiday and recuperate. His team is negotiating a lease. With support and funding they hope that they may be able to open sometime in 2016. They will apply to become a charity in Scotland called “Electromagnetic Health Initiative”, separate from ES-UK. Further details are available from Brian.

Housing: Tiny House project

See the video “Corinne's Non-Toxic Tiny House” (18 min., www.youtube.com/watch?v=G16pXNmt8CQ) for a trailer home built with chemical-free materials and reduced EMF on a 20 by 8 foot trailer, which can be relocated if there is increased chemical or electrical pollution.

Retreat centre

Pishwanton in East Lothian, Scotland, offers retreats and courses in an eco-friendly environment.

Measurements on Dartmoor; and beware LED lights

Prof Trevor Marshall reports on Yonder Shippon, a remote cottage on Dartmoor. “I switched on the Cornet ED85EXS, and saw a -65 dBm reading both inside and outside the Shippon (which has 18” thick stone walls, but normal glass in its windows, and a non-attenuating slate roof). When I used my cellphone, standing outside the front door, I was able to connect to Three (T-Mobile) at -100 dBm RSSI, one bar, and at -95 dBm RSSI, two bars, with Vodafone. The spectrum sweeps validate that cell signals are close

to zero (typically -111 dBm) from the other carriers as well. That is far below the -75 dBm that I am currently using as the level to which a bedroom's shielding has to reduce cell-tower signals. But there is a huge tower 10 miles away at Princeton which carries many signals. Signals can be seen just below 240 MHz (Digital Audio Broadcasting, DAB) and just below 400 MHz (TETRA) as well as two 160 kW FM transmitters at around 90 MHz. The digital signals were both below -70 dBm outside, and around -75 dBm inside. The FM signals were stronger, at about -63dBm, but probably less bioactive. When I had been staying in Bonn for the EPMA conference the FM signal strength



in our room was an excessive -32 dBm from the FM antennas towering over Bonn. So we had 1000 times less than that. The tower's Digital TV signals can be seen below -80 dBm, between 700 and 800 MHz.

After days of observations and measurements, I concluded the biggest problem with white zones is that you have to leave them for food, and companionship. The mesh clothing shielded well, wherever we went.

At higher frequencies all signals were below -90 dBm. This includes a weak WiFi signal from the farmhouse, about 150 yds away.

The Cornet gave me higher readings during the evening. I finally figured out that the LED lighting (GU10) in the Shippon ceiling, which fortunately can be

totally switched off, radiates a surprising amount of energy at Very High frequencies (VHF, just below Microwaves)." (Prof. Trevor Marshall, Forum: "Exploring an EMF/EHS 'White Zone'", 18 September 2015)

Hotel with shielded room

Martinpark Hotel in Dornbirn, Austria, now has a room shielded from electrosmog. The hotel recognises that although some guests like WiFi, others are unable to access the hotel unless there are areas free from WiFi and similar radiation.

Tatler award hotels: shielding, electrosmog switches, smart-phone bans

The Villa Stéphanie at the Brenners Park Hotel and Spa in Baden-Baden has screening from the neighbouring rooms; all walls have metal shields and a special coating that blocks all high-frequency signals.

Special shielded cables are used throughout, reducing EM fields or 'electrosmog'. A switch in the bedside table allows the entire room to be disconnected from the electricity supply. 'Digital Detox' is the name of this cleansing process which is growing in public awareness by the day. The Villa Stéphanie has just been awarded one of the prestigious Tatler Awards (Best For: "A proper switch-off from Wi-fi") for its revolutionary Digital Detox offer. Suzanne Duckett writes: "But the masterstroke that has brought this place bang up to speed with the digital age is the fact that you can block OUT the digital age. All of the



bedrooms have two surreptitious buttons: one turns off the mains electricity supply, the other blocks out mobile or wi-fi signal." The spectacular new Vana in India, another Tatler winner, takes digital detoxing a step further. "At check-in, I'm asked to sign a disclaimer agreeing not to use handheld devices in any communal areas."

Green Bank US: proof of ES

"Stewart said he was sceptical about electrosensitivity until he tried an experiment. He held a meeting with some electrosensitives, and didn't tell them he had a mobile phone in his pocket. "They noticed at once. After that I was convinced. If you're sick, who am I to shun you? And mostly the electrosensitives have realised that they have to fit in, and it's been fine," he adds." (Ed Cumming: "The town that banned WiFi", The Observer, 21 June 2015)

"Quiet Zone" trailer

"Through the use of complex imagery and sound, filmmakers Karl Lemieux and David Bryant take us deep into the world of those who suffer from EM hypersensitivity. Combining elements of documentary, film essay and experimental film, Quiet Zone defies genres, weaving together an unusual story in which sound and image distort reality to make the distress of these "wave refugees" palpable." (1 May 2015) www.youtube.com/watch?v=n-lq1QTa7bs



BAN WIFI

“Penrith should be WiFi-free zone” - Nuremberg Code of Ethics?

From a letter published in Penrith's Herald: “Sir, I read with dismay (Herald, 27 June) that Penrith town centre is to get free WiFi in a so-called business boost. This at a time when there is growing controversy about the safety of wireless devices and human health. On 11 May 190 international scientists from 39 nations, including the UK, signed a letter to the UN expressing their grave concerns on this very issue. Children are more likely to be affected by radiation from WiFi.

According to the Nuremberg Code of Ethics, such microwave irradiation without the express and informed consent of the people being irradiated is classed as a violation of their human rights. Is someone going to stand at the entrance to Middlegate and ask the people entering the town to sign a disclaimer form saying they have been informed of the possible health risks of being subjected to blanket microwave pollution and are going in anyway?

Yes, I know other towns have it, but inflicting WiFi on an unsuspecting public is outrageous, and will drive potential customers away. Possibly it will make the lives of some people a complete and utter misery if they become or are already sensitive to it. They may even sue. Penrith has now been put on a blacklist of places with town centre WiFi. It will discourage people, of that I have no doubt. I am affected by it and don't know if I will be able to enter the areas covered by WiFi. I certainly will not linger longer, that is if I can physically bear the

pain to go into the area at all. Did anyone do a risk assessment? I have read about a town which has done away with WiFi and hardwired its computers because of health concerns. This is the enlightened way to go. If Penrith wants to be abreast of the times, make the town a WiFi-free zone and ask everyone to hardwire their computers, cut out as much wireless as possible and publicise the fact far and wide.” (Mary Gaylor: “Penrith should be WiFi-free zone, not have free WiFi” Cumberland & Westmorland Herald, 6 July 2015)



Removing children from school WiFi

“An informed couple whose children attend a UK primary school have taken steps to relinquish their children's statutory right to a state education, over concerns about the installation of wireless local area network (WLAN) or wi-fi. Sarah and Will Mockett are savvy parents who are very familiar with the ongoing issues about the safety of radio frequency (RF) EM frequencies (EMFs), and the mounting evidence of risk to children from sources of EM radiation. When it emerged that wi-fi was to be installed in the new build planned for their children's primary school, they campaigned hard, backed by the Safe Schools Information Technology Alliance (SSITA) for the right of all the children to be

educated in a safe environment as possible. But sadly their efforts have so far been to no avail, as the school, like many others, follows Public Health England (PHE) guidelines that present wi-fi in schools as safe, whilst a wealth of evidence suggests the contrary. Sarah and Will Mockett are by no means alone in their concerns. They have been informed by the SSITA representative that “there are 70 other parents who are part of the joint complaint to the PHSO [the UK Parliamentary and Health Service Ombudsman] regarding wi-fi in schools”. They all join other parents and experts acting on their conscience and common sense. A family in Australia removed their children from a school earlier this year, over wi-fi health issues.” (“Exclusive: Parents take steps to remove children from UK primary school over wi-fi risks” Alliance for Natural Health, July 2015)

WiFi router has 70% reduced radiation for pregnant women

Qihoo 360, a Chinese tech firm, unveiled a new wireless WiFi router, an upgrade to an existing product, which has three settings: (i) wall penetration, (ii) balance and (iii) “pregnant women”, stating that the third setting reduces radiation emitted by the router by 70%. The BabySafe Wireless Project states that wireless radiation poses a risk to pregnant women and their unborn babies. (Zoe Kleinman: “‘Pregnancy wi-fi’ router causes controversy in China” BBC News, 23 June 2015)

BBC to give all year 7 children a cancer device

The BBC is to give its Micro Bit mini computer to every 11- and 12-year-old child in Year 7 or equivalent at school in October 2015. It has built-in wireless Bluetooth, a 2B cancer agent. [UK government advice since 2000 is against children under 16 using mobiles except for essential calls.] (Leo Kelion: "BBC Micro Bit computer's final design revealed" BBC News, 7 July 2015)



Library WiFi is 'no-brainer'

"Culture Minister Ed Vaizey says installing free wifi in every public library is a 'no-brainer'" (Daily Telegraph, 4 June 2015) [Mr Vaizey may be correct: WiFi radiation adversely affects the brain, reducing its cognitive powers in some people – Ed.]

School: WiFi replaced with cable

The 11 June 2015 newsletter of the Shearwater Steiner School in Mullumbimby NSW, Australia, announced that "Over the coming school holidays, wireless access points [WiFi] will be removed and replaced with Cat5e cable. This policy decision has been made based on an in-depth review of relevant research on the potential effects on physical health, as well as pedagogical concerns about the negative social and emotional impacts on students of frequent laptop, mobile phone and internet use ... we feel that possible risks inherent in the use of wireless technology are not justified based merely on the convenience that it provides ... ICT Educational Guidance Committee." (reported in EMRAware Newsletter, July 2015)



Virgin Media dangers: Super Hub uses "5GHz and 2.4GHz at the same time ... 5 internal antennas"

"Virgin Media is gearing up to provide its broadband customers with free Wi-Fi throughout U.K. towns and cities from September. The service will be powered by customers' Super Hub and Super Hub 2 routers, which will double as public hotspots." (Killian Bell: "Virgin Media to offer free Wi-Fi on U.K. streets next month" TechnoBuffalo, 19 August 2015) "Our Super Hub gives ultrafast WiFi speeds that stay fast across loads of devices because it uses 5GHz and 2.4GHz at the same time, and has a sneaky extra wireless antenna. Wireless b, g, n capable in 2.4GHz band plus wireless a, n & ac in 5GHz band (dual-concurrent frequencies), 5 internal antennas, up to 3 spatial streams in the 5GHz band." (Virgin Media website)

Australia: suffering from WiFi

Mike Clay "Is WiFi technology damaging our health?" (The Drum, ABC News, 10 July 2015), features James McCaughan, an EHS university physics lecturer, who is sensitive to WiFi, and the Spencer family who have withdrawn three of their children from school because they are sensitive to the school WiFi (www.abc.net.au/news/2015-07-10/is-wifi-technology-damaging-our-health/6611532).

Café abandons WiFi

Café Ibis recently announced that it's not offering public wi-fi at the cafe, embracing a nationwide trend. A cafe in Oakland, California, asks customers to "leave your technology at the door"; phones and tablets are banned Wednesday through Saturday. (Kevin Opsahl: "Caffe Ibis ditches wi-fi, embraces emerging trend" HJNews, 23 June 2015)

Cafés abandon WiFi

"The love affair between coffee shops and laptop-wielding customers may be dying out as coffee shop owners revolt against Sydney-siders' demand to be wired up. Wi-Fi backlash is a trend accelerating among coffee shops, bars and restaurants, where a failure to see the benefits of Wi-Fi-induced turnover is encouraging many owners to restrict Wi-Fi or ban it. Rather than seeing customer numbers dwindle, Mr Gibson noticed a spike in popularity after Hemingway's changed its Wi-Fi policy." (Kieran Giar: "Sydney unplugged: Cafes force punters to power down" Sydney Morning Herald, 19 July 2015)

Increased cancer diagnoses in schools since WiFi

The research of Dr Havas, a scientist who studies the effect of EM energy on human health, shows that WiFi is making us sick. That's why she balks when marketers promote electronic pacifiers. "It's so ludicrous, I can barely contain myself," she said. Havas is a researcher at Trent University who works with people who are hypersensitive to EM energy from wireless devices. This week she was one of five scientists in charge of a campaign to get Health Canada to tighten up its rules around the use of EM energy. Havas and her team presented submissions from 190 fellow scientists from around the world who say exposure to WiFi, cellphones and cellphone towers is harming our health. Some schools have seen an increase in cancer diagnoses in the years since Wi-fi has been introduced, Havas says, and she thinks it's about time Health Canada does something about it. (Joele Kovach "Wi-fi making us sick: Havas" The Peterborough Examiner, 16 May 2015)

WiFi sensitivity: like a “deep burning sensation” “strong evidence this is a real syndrome”

Suzanne Hoyt said that nothing prepared her for the rush of symptoms that she suddenly developed. “Brain fog. That’s my worst problem. A brain fog. Headaches, perspiration, pain in my jaws and my heart. It’s like physical expansion of the heart.” It all started when Hoyt installed WiFi throughout her apartment. “I started to be very uncomfortable, and I didn’t know what it was,” she said. “It was like a deep burning sensation in my face, in my nose, my jaw,” she said. It’s called Wi-Fi sensitivity, and doctors say it’s a very real condition with serious consequences. Dr David Carpenter, an environmental scientist and expert on Wi-Fi’s effects, said the scientific link between Wi-fi and health is clearly emerging. “There is a body of evidence that is strong. It’s not 100% understood, but it’s strong evidence that this is a real syndrome that causes real harm to real people,” he said. Dr Carpenter said it’s a significant problem for about 5% of the population, many of them have no idea that Wi-fi is to blame. “They walk around feeling ill and they don’t know what to do about it,” he said. (“Seen At 11: Woman Says Her Wi-Fi Connection Is Making Her Sick” CBS New York, 20 May 2015)

Phone mast and WiFi kills fish?

Deering High School biology teacher Polly Wilson has taught marine ecology in Room 305 for 16 years, always with tanks of fish. Three years ago the fish started to die. This spring the students used aluminum foil to shield the tops and sides of 4 aquariums containing comet-tailed goldfish from RF waves. “We left them in there over Memorial Day weekend, we came back and they were fine,” Wilson said. “At that point, we took one of the foil (cages) off and 36 hours later,

the fish died.” The other fish, in the 3 shielded aquariums, were fine and are still alive. Wilson abandoned her classroom of 16 years to teach in a vacant room. The Portland School district gets about \$36,000 a year for leasing the roof space to U.S. Cellular, which added three more antennas to the array in 2011, for a total of 6. The company issued a report in 2012 which found RF readings were below FCC safety standards but the highest readings inside the building were in Room 305. The report also noted that the building has multiple Wi-Fi hotspots, including one right in the middle of the ceiling of Room 305. (“Cell tower on Deering High roof undergoes tests after fish die in classroom” Portland Press Herald, 11 June 2015)



WiFi harm in USA

“Thus far in 2015, I have been contacted by many people who have reported being injured by the new Xfinity WiFi routers. One woman wrote that it felt like she was “being microwaved.” Others have reported headaches, insomnia, brain fog, burning sensations on their skin and heart arrhythmia. Comcast is using Xfinity routers as gateways into a “smart home” and to deliver WiFi service to anyone within a few hundred feet of your home. The plan is to turn their customers’ homes into public “hot spots” with the result that WiFi is nearly ubiquitous in our communities. Unlike previous generations of WiFi routers, there are now at least 2 (possibly 4) antennas within the Xfinity routers, one at the typical 2.4 GHz and now a second at 5.0 GHz. There are also 2 channels within in each antenna, a private channel for your home and a public channel for any

Comcast customer who is walking by. Multiple EMF consultants have shared with me that when they measure these new routers, the readings are much higher than any consumer router they have ever measured previously. If you live in an apartment building or dense city, this issue is much more complex. If moving isn’t an option, you could share this information with your neighbors and they may decide to turn off their Xfinity routers and use Ethernet cables. For other neighbors who want to keep their WiFi, you could purchase them a Router Guard, a partial Faraday Cage for the router.” (Jeromy: “Why is Xfinity WiFi Harming People?” EMF Analysis, 18 August 2015)

Skin problems and hyperactivity from WiFi and masts

Lily Law, a mother in Malaysia, suffers from skin problems near telco towers and WiFi. The problem stops when the WiFi is switched off. Her son, Elton, 9, is hyperactive and over talkative at night from the same radiation (Astro Awani, 10 August 2015: www.youtube.com/watch?t=16&v=TG2R-9_nPyw)

Men’s underwear to protect from WiFi

“Described by Sir Richard Branson as ‘underpants for superheroes’, the Wireless Armour underwear contains a mesh of pure silver woven into the fabric that shields against 99.9% of electromagnetic radiation, which is emitted from devices like smartphones, tablets and laptops.” (“Anti-radiation’ PANTS go on sale: £24 Wireless Armour boxer shorts claim to protect your package from Wi-Fi signals” Daily Mail, 13 August 2015)



BAN PHONE MASTS UNDER 500 METERS AWAY

Some 80% of studies on the harm from phone masts show increased cancers and neurological illnesses from masts sited under 300-500 meters away. Some countries are aware of this, but planners in the UK seem unwilling to protect the citizens they represent, claiming the UK government prevents them from evaluating health aspects of planning, presumably the most important factor in all planning decisions.



Photograph: West Granton Road, Edinburgh: a mast overshadowing a playground and housing. This breaks biological safety limits.

India: mobile phone operators to pay for cancer treatments?

“Mobile tower operators may end up footing the bill for the medical treatment of cancer patients as the Delhi Government is planning on introducing a hazard exposure insurance fund.” (“Govt sends a message” The Hindu, 23 August 2015)

Mast: “a health hazard associated with cancer”

From a letter by Prof. Hilary Hoey, consultant paediatrician, and Dr Peter Harris, GP, in the Liffey Champion (John Weigel, June 2015) about a mast in Leixlip: “It is appalling that they erected this mast in Leixlip which is exposing those living and working in the area to radiation which is a health hazard associated with cancer, depression of the immune system and in children impaired brain development ... The siting of this mast in the village is in

breach of Government Policy (Government Guidelines June 2005) which recommends that communications masts should be located well away from homes, schools or locations where people congregate ... Radiation is a well-known health hazard and the people living and working Leixlip should not be exposed to this unnecessary radiation.”

NPPF of 2012: “ICNIRP limits are short-term and for heating and irrelevant to long-term exposure”

From a letter reporting that the local planners approved the shared 4G upgrade to a phone mast. “They said that they were required to do so under the National Planning Policy Framework of 2012, which has the same radiation limits as PPG8 of 2001. These ICNIRP limits, however, are short-term, averaged over six minutes, and only for heating effects; they were declared ‘obsolete’ by the EU Parliament in 2009 and are irrelevant to local residents’ long-term exposure. For long-term exposure biological limits are needed, like Bioinitiative of 2012, up to three million times lower. Since the ICNIRP set its heating limits in 1998, mobile phone radiation has been classified as a 2B ‘possible’ carcinogen and 80% of medical studies show increased rates of cancer within 300-400 metres of phone masts. From 1958 onwards many other countries have adopted biological limits. Masts should be at least 500m from residences and operate at biological levels. The current health cost for our mobile convenience is too high.” (Michael Bevington, Buckingham Advertiser, 19 June 2015)

Mast would ruin Dartmoor

The first of 4 towering mobile phone masts on Dartmoor will destroy one of the region’s beauty spots at Drywell Farm, Ponsworthy, near Widecombe-in-the-Moor. The £300,000 in public funding for each 22.5 metre lattice tower would give improved mobile coverage to just 47 residences, some of which are holiday homes, at up to £6,382 per property. Norman Cowling, chairman of the Dartmoor Preservation Association, said: “If Arqiva has its way everyone who comes to Dartmoor seeking beauty, tranquillity and inspiration will have modern England pushed into his face.” It is part of the government’s £150 million Mobile Infrastructure Programme to improve mobile coverage for 60,000 homes, most of them in National Parks and other areas of rural Britain. The park’s Development Management Committee is recommended to refuse the application since the development would have “an adverse visual impact and will be detrimental to the defined attributes of the landscape character and special qualities of this part of the National Park”. Mr Cowling argues that the surrounding farms and cottages already have landlines and a “pretty decent” broadband service. He says locals and those who work on the moor know where to find good mobile reception. “Most say it is not a problem; and some positively welcome the ability to get away from remorseless phone contact,” he added. Arqiva admitted satisfying everyone within “high-value” environments was a challenge. (P Goodwin “Giant phone mast will ruin beautiful Dartmoor, planners told” Western Morning News, 2 June 2015)

USA's 1996 planning law "out of date"

Residents' recent opposition to neighbourhood phone masts is causing some on the Ramona Community Planning Group to look at them in a new light. Planner Paul Stykel said he is realizing the cell towers are a commercial product that is being proposed for areas not zoned commercial or industrial, at the group's meeting on 4 June.

"I really oppose one property owner profiting at the expense of the others," said planner Donna Myers. At the January planning group meeting, about 20 neighbours of the Cedar Street site spoke against the proposed Verizon cell tower, citing studies of adverse health effects caused by EM radiation for those in close proximity, as well as visual and property value impacts. Planner Jim Cooper said the federal 1996 Telecommunications Act, which prohibits state and local governments from denying permit applications for cell towers based on health concerns from RF emissions, seems out of date. Cooper said he would challenge the veracity of the act as there have been "solid studies" on health impacts, such as cancer, attention deficit disorder and neurological diseases. Cooper made a motion to deny the cell tower for reasons that included it is a commercial, industrial application in a residential area, is along a scenic highway, exceeds the county height limit and has potential to decrease property values.

The motion passed 10-1. (Karen Brainard "Planners oppose cell tower on residential property" Ramona Sentinel, 12 June 2015)



Phone mast dangers: presentation

Katharina Gustavs, on behalf of concerned citizens of Cadboro Bay, to Health Saanich Advisory Committee: "The Right to a Healthy Environment: RF Radiation Exposure from Cell Towers", 20 May 2015, www.katharinaconsulting.com/s/2015MAY20_Saanich_Microcell_Antenna_Presentation_2.pdf

Cancer and ES danger of phone masts

"Having personally seen several patients with some inexplicable symptoms, Dr Adlina Suleiman, an associate professor from MARA University of Technology (UiTM) in Malaysia and Dr Thor Teong Gee, a general practitioner, have been conducting several independent studies on the subject of EMR from telco towers. Those who have been living near to telco towers indicated a higher chance of getting headaches, giddiness, insomnia, loss of memory, diarrhoea, mental slowness, reduced reaction time and mood swings. They also found that more cases of cancer happen to those who live less than a few hundred metres away from these towers, concluding that one would have a higher risk of developing cancer after being exposed to EMR for years." (Suleiman A et al, J Geosci Environ Protection, 2014; Teoh El Sen: "Wireless technology: Are we ignoring potential health risks?" Astro Awani, 2 September 2014)

Los Angeles police join fire-fighters in refusing cancer masts

Los Angeles police on 2 April 2015 joined fire fighters in persuading LA City Council to vote 12-0 against LA RICS federal cell tower roll out. By stopping the erection of 200 communications towers this becomes the issue of a state's rights against the federal government with the implementation of FirstNet. (John Weigel, 5 April 2015).

Philippines demand removal of masts after cancer deaths

"Officials and residents of Barangay Apas, Cebu City, asked Mayor Michael Rama to order the demolition of cellular sites of two telecommunication companies in Sitio Calvary Hills.

They pointed out that the two-month grace period given by the City Council for Globe Telecom Inc. and Digitel Mobile Philippines Inc. to remove the cellular towers will lapse on 27 July. The Calvary Hills Apas Residents' Organization (Charo) said that since 2000, 25 neighbors have died of cancer. Five residents died last year." (Princess Dawn Felicitas: "Villagers push for demolition of cell towers" Sun. Star Cebu, 22 July 2015)

Phone masts: "memory loss, digestive disturbances"

"Radiation from such towers poses grave health risks including memory loss, lack of concentration and digestive disturbances", according to the environmentalist Mehta Nagendra Singh. ('Cellphone towers' electromagnetic radiation harmful' The Times of India, 5 May 2015)

India wakes up to cancer from phone masts

In India, "the department of telecommunication (DoT) has finally woken up to the fact that there may be a correlation between cancer and exposure to radiation from cell phone towers. A comprehensive study conducted by a DoT body has documented cases of cancer deaths in areas overexposed to telecom towers in Mumbai. In September 2012, the government lowered radiation emission limits for mobile phone towers to 450 milliwatts/sq m from 4,500 [i.e ICNIRP, as still used by the UK]. But even this is way above international norms." (DNA India, 7 April 2013)

Phone masts and vanishing house sparrows and peacocks



A study by an expert committee of the Union ministry of environment and forest, called 'A possible

impact of communication tower on wildlife birds and bees', attributes the drop in number of birds in Indore, Bhopal, Jabalpur, Ujjain and other cities to the increase in use of mobile phones and EM radiation from phone masts. Girish Kumar, of the electrical engineering department of IIT-Mumbai, who has worked extensively on harmful effects of mobile towers' radiation on humans, birds and animals, said birds, including sparrows, honey bees and peacocks are

severely affected by cell-tower radiation as their surface area is more (so radiation absorbed is more) as compared to their body weight. Effects on peacocks is much more pronounced as their wings and feathers have more surface area resulting in a large absorption of radiation, and hence, creating more health hazards leading to various ailments and even death. ("Not just you, cell tower radiation killing birds" Times of India, 22 May 2015)

EU DIRECTIVE ON RADIO SAFETY

EC Directive 2014/53/EU on all radio equipment: "to ensure the protection of health and safety of persons"

By June 2016: This European Directive is to be transposed by members states into national law by 12 June 2016 (49.1, p.32) and members states will have to issue a report by 12 June 2017 and every two years thereafter (47.1, p.31).

All radio devices will need to be banned? This Directive refers to the need for all radio devices to be safe and not cause ill health. Given that medical science has now established that radio is a neurological and cancer agent and that there is ill health from radio devices even at very low levels, including ES symptoms, it appears that the EU expects any devices contravening this Directive to be banned. The requirement, therefore, that operators of "radio equipment" which "presents a risk to the health or safety of persons" should "withdraw the radio equipment from the market" appears to apply to all mobiles, masts, WiFi, Bluetooth and 'smart' meters. All these devices use radio frequency, now an established neurological and cancer agent and therefore "a risk to the health or safety of persons". The responsibility for compliance appears to be primarily on the Commission, member states, the economic operators, manufacturers and those who market such devices.

Details: "Article 3: Essential requirements:

1. Radio equipment shall be constructed so as to ensure: (a) the protection of health and safety of persons and of domestic animals and the protection of property, including the objectives with respect to safety requirements set out in Directive 2014/35/EU,

but with no voltage limit applying." (p.11)

"Article 42: Compliant radio equipment which presents a risk:

1. Where, having carried out an evaluation under Article 40(1), a Member State finds that although radio equipment is in compliance with this Directive, it presents a risk to the health or safety of persons or to other aspects of public interest protection covered by this Directive, it shall require the relevant economic operator to take all appropriate measures to ensure that the radio equipment concerned, when placed on the market, no longer presents that risk, to withdraw the radio equipment from the market or to recall it within a reasonable period, commensurate with the nature of the risk, as it may prescribe.
2. The economic operator shall ensure that corrective action is taken in respect of all the radio equipment concerned that he has made available on the market throughout the Union.
3. The Member State shall immediately inform the Commission and the other Member States. That information shall include all available details, in particular the data necessary for the identification of the radio equipment concerned, the origin and the supply chain of radio equipment, the nature of the risk involved and the nature and duration of the national measures taken.
4. ... On duly justified imperative grounds of urgency relating to the protection of health and safety of persons, the Commission shall adopt immediately applicable implementing acts in accordance with the procedure referred to in Article 45(4).
5. The Commission shall address its decision to all Member States and shall immediately communicate it to them and the relevant economic operator or operators." (p.29)

FRENCH COURT AWARDS EHS DISABILITY GRANT

French judgement supports EHS person with 85% functional handicap

On 8 July 2015 a French judgment forced La Maison Départementale des Personnes en Situation de Handicap (MDPSH) to compensate Ms Marine Richard, an EHS person. This is the first time a French court has recognized EHS as a handicap. "Please tell EHS people from your country that they have to do the same everywhere! Together we will win, in the end. With my very warm regards and with all my gratitude for the support and help I received during this 3 years' journey."



French judgement details

"The diagnosis: The symptoms disappear as soon as the causes are eliminated ... in a hostile environment [the handicap] can reach 100%."

The evaluation of disability: (a) The 19 activities: they can all be affected ... so evaluation of disability ranging from 0 to 100% depending on the situation.

(b) Duration: we hope that a therapeutic solution appears or the symptoms will diminish. We give a period of three years. (c) The help requested is basically financial: (1) buy wood for heating, (2) remunerate caregivers for provision of food etc., (3) ensure safety in bad weather conditions, (4) housing could be improved, apart from isolation in white areas, already recognized and achieved in France, or in specific buildings, which exist in some countries.

Conclusion: 1. The functional deficiency is evaluated at 85% in the current social environment. 2. A period of three years renewable according to the development of the disability. She cannot obtain employment due to her disability.

The decision: According to L.821-1 and L.821-2 of relevant articles of the Code of Social Security: The allowance for disabled adults shall be paid to any person whose permanent partial disability rate is at least 80%, or is between 50 and 79% in the case of a substantial and lasting restriction for access to employment due to disability. Madame ... has a disability rate of 85% with a substantial and durable restriction for access to employment."

"A legal precedent for 'thousands of people'"

"The applicant, Marine Richard, 39, hailed the ruling as a "breakthrough" for people afflicted by Electromagnetic Hypersensitivity (EHS). Richard, a former radio documentary producer, has opted for a reclusive life in the mountains of southwest France, in a renovated barn without electricity, and drinking water from the well. In a ruling last month, a court in the southern city of Toulouse decided she can claim a disability allowance - about 800 euros (\$912) per month for an adult - for a period of three years. Her lawyer Alice Terrasse said the ruling could set a legal precedent for "thousands of people". Sweden and Germany have classified it as an occupational disease." ("L'électrosensibilité officiellement reconnue comme un handicap lourd" SudOuest avec AFP, 25 August 2015; Agency France-Presse: "French woman wins disability grant for 'gadget allergy'" Expatica, 26 August; Guardian, 27 August, The Times of London, 27 August)

BBC News on French recognition of EHS

Excerpts from the BBC report: "A French woman has won a disability grant after telling a court she suffers from an allergy to EM radiation from gadgets. Marine Richard, 39, was told she may claim €800 (£580) per month for 3 years as a result. She said it was a "breakthrough" for people affected by EHS. The condition is recognised by the World Health Organisation (WHO), though it says the causes are unclear.

School sued: In a case in the US, the parents of a 12-year-old boy who they say is hypersensitive to his boarding school's WiFi have decided to file a lawsuit against the establishment. The parents say their son, a day pupil, has been diagnosed with EHS.

They say he began suffering from headaches, nosebleeds and nausea after the Fay School installed new WiFi in 2013.

Understanding EM fields, By Philippa Roxby, BBC News Health Reporter:

EM fields are all around us but most cannot be seen. Those who are sensitive to them talk of experiencing headaches, sleeplessness, ear pain when using a mobile phone, skin tingling and problems with concentration and memory. For them, the only solution at present is to avoid objects that emit radiation in the home - not easy in the modern world. In the UK, EM hypersensitivity is not a recognised condition. That's because Public Health England says there is no scientific evidence that EM fields damage people's health. The WHO agrees and believes more research on long-term health effects needs to be done.

Difficult case: Although some countries, notably Sweden and the US, have officially recognised EHS as a condition, there is still much debate over whether a legal case on the condition would be worthwhile in certain other states. In the UK, for example, members of the public who are worried about exposure to mobile phone masts tend to challenge their construction on a planning basis, according to research group Powerwatch. “The health issue is close to a no-win in this country at the moment,” Graham Lamburn, its technical manager, told the BBC. “You really need to win on things like ‘it’s devalued my property because it’s

outside my window’ or ‘there’s an irregularity in the way it’s been put through with planning’.” Electrosensitivity UK (ES-UK), a charity that campaigns for wider recognition of EHS, said it welcomed the French court’s decision. “Several people in the UK have been diagnosed with electrosensitivity and received help for the disability but any financial allowance usually refers to a different name for the condition or a related condition,” it said in a statement. (“Gadget ‘allergy’: French woman wins disability grant”, BBC News, Technology, 27 August 2015)

LEGAL CASES

Are ES symptoms scapegoats for governmental secrecy?

By Barrie Trower, a former military microwave specialist.

Without exception, when I visit a country to lecture, I am high-jacked by emergency service personnel asking whether their new pulsed microwave system could be responsible for changes in behaviour, health and accidents. On two occasions I have even been delayed at airports by staff on this issue. I have written and had published that these systems could be responsible for: more cancers, general sickness, violence and vehicle accidents. In fact it is very difficult to find where this has not happened once a system has been installed.

Public transport can be particularly dangerous and uncomfortable to ES sufferers, both passengers and staff. In a recent train crash in France, it has been reported that the driver was suffering from a personality ‘change’ in the weeks leading up to the crash. He was also on the phone just prior to the derailment and survivors reported ‘phones’ constantly ringing. I have tried three times to have ES introduced into this enquiry; I have been unsuccessful.

Similarly, military personnel are known to be very heavy users of pulsed microwave transmitting systems. It is known by the military that this can, in some cases, cause ‘severe neurological disorder’. In recent history we have had a Royal Marine sentenced to life imprisonment for ‘acting violently out of character’. He is the eighth who has recently come to my attention for acting out of character, causing suffering or death, thence receiving a life sentence. I spoke to our Royal Marines Defence Team and sent them the government documents showing this phenomena, suggesting a simple EEG, after re-exposing the person concerned, could show a particular susceptibility to EM radiation; this could be considered during sentencing. Their reply was: “We are not pursuing this line of defence”. Clearly, with the tens of thousands of emergency service personnel world-wide and military personnel in all world zones, a percentage must be ES or EHS, regardless of nationality or rank.

My aim in writing this short article is the hope that it may be passed to a legal team, anywhere, where a person is to be tried for causing a disaster or death, who was known to be using a pulsed microwave communications

system; in that a simple EEG could, or could not, demonstrate changes in neurological patterns, thence affect the outcome.

Lloyd’s refuse school WiFi insurance: school governors personally liable?

“On 18 February 2015 the UK agent for Lloyd’s warned Canadian schools: “The Electromagnetic Fields Exclusion (Exclusion 32) is a General Insurance Exclusion and is applied across the market as standard. The purpose of the exclusion is to exclude cover for illnesses caused by continuous long-term non-ionizing radiation exposure i.e. through mobile phone usage.” This decision is important because Lloyd’s of London often leads the way in protection by taking on risks that no one else will. But the decision is not surprising because Lloyd’s refused to cover mobile phone manufacturers against risks to users’ health more than a decade ago in 1999.” (“Wi-Fi alert: School officials may be personally liable for exposing children to wireless radiation” NaturalHealth365, 22 March 2015)

“Lloyd’s Won’t Discuss Their New EMF Exclusion Clause”

This is the title of an article by Andrew Geller on his website (25 March 2015). He reports that

he emailed the Lloyd's press centre stating that he wanted more details about the exclusion, saying he was primarily a radio producer. Two hours later, he received a response from a woman at Prosek Partners, "a communications consultancy, which apparently handles such issues for Lloyd's. She wanted to know more. Andrew replied, also asking how widely the exclusion is being replicated in Lloyd's policies. Is there any sense internally at Lloyd's about this being a first step that is likely to be copied industry wide? Was there any conversation pre/post release of the exclusion language with any wireless industry businesses?" On 25 March she apologized for the 24 hour 'delay' and wrote back: "Unfortunately, Lloyd's doesn't have a spokesperson who can talk about this so we're going to have to decline." Andrew mentioned in his reply that her refusal to talk about the policy change would possibly 'draw attention away from more important aspects of the story'.

USA: ADA federal complaint against school over WiFi illness

Parents have sued a school for violation of the Americans with Disabilities Act (ADA) and damages for breach of contract and negligence. After stronger school WiFi was installed in spring 2013, a 12-year-old boy experienced troubling symptoms, which he reported to his parents when he came home from school. These included severe headaches, itchy skin, and rashes. The school nurse indicated that various children in the same classes were reporting increased headaches, dizziness, nausea and chest pressure. The symptoms were present whenever he was at school. The child was diagnosed with EHS after several tests. Parents brought the issue to the school's attention. The school instructed the nurse that legally they are

not obligated to be concerned about WiFi radiation, even though other children were having similar symptoms. According to the ADA and other disability laws, public and commercial buildings are required to provide reasonable accommodations for those disabled by chemical and/or EM sensitivities.

The parents offered to pay themselves for non-disruptive accommodations such as hardwiring the internet with ethernet connections and the school declined. The school insisted that the WiFi system complies with Federal Communication Commission (FCC) RF radiation guidelines adopted in 1996 despite the EPA clarifying that such regulations do not apply to long-term WiFi exposures in schools.

The Fay Board of Trustees received 4 letters from scientific experts in EM fields:

1. "I must, as a public health physician, advise minimizing these exposures as much as possible. Indications are that cell phones and wireless technologies may turn out to be a serious public health issue, comparable to tobacco, asbestos, DDT, PCBs, pesticides and lead paint, or possibly worse given the ubiquitous nature of the exposures." (Dr. Carpenter, Director, Institute for Health and the Environment, University of Albany)
2. "Compliance with FCC guidelines, thus, unfortunately, is not in any way an assurance of safety today, as the guidelines are fundamentally flawed. Until the guidelines and advisories in the U.S. are updated, the intelligent thing for your Board of Trustees to do is to exercise the Precautionary Principle and hard wire all internet connections." (Dr. Martin Blank, Columbia University)
3. "We know that the heart is sensitive to and can be adversely

affected by the same frequency used for WiFi (2.4 GHz) at levels a fraction of federal guidelines (less than 1%) and at levels that have been recorded in two Ontario schools with WiFi technology." (Dr. Stephen T. Sinatra, Cardiologist. M.D., F.A.C.C, F.A.C.N., C.N.S.)

4. "Radiation of the kind emitted by WiFi transmitters impacts attention, memory, perception, learning capacity, energy, emotions and social skills. There is also diminished reaction time, decreased motor function, increased distraction, hyperactivity, and inability to focus on complex and long-term tasks. In some situations, children experience cardiac difficulties." (Dr. Olle Johansson, Department of Neuroscience, Karolinska Institute)

("Massachusetts: Wi-Fi in School: ADA Federal Complaint Against School After Child Fell Sick From Wireless Installation" Towards Better Health, 14 August 2015)

Accommodating teachers and students intolerant of WiFi radiation

"I resigned from my teaching position due to lack of accommodation for an invisible illness - environmental sensitivity. I did get accommodation for chemicals/scented products, but not for electrohypersensitivity (EHS), which is a biological reaction to radiation frequencies from wireless networks (and is recognized as a disability by the Ontario Human Rights Commission). There is an increasing number of teachers (and students) who can no longer tolerate being in a wireless environment for extended periods of time. We experience chronic head and muscle aches, extreme fatigue, rashes, foggy thinking and irregular/rapid heart rates. These health effects are not conducive to effective teaching! The accommodations we are requesting are easy to

implement: a wired connection for our personal computer, on/off switches for the access point (router) in the classroom and in common areas, and requesting that those working within 15 meters put their cell phones in “airplane” mode.

Teachers with this disability are being denied accommodation, as I believe it is becoming a hot-button issue, just as cigarettes were a few decades ago. If someone had told me 10 years ago that I would be too ill from wifi technology to continue in my job, I would not have believed them. Yet this is my reality; it’s been a financial struggle as well as a social one, and one that has a very reasonable solution.” (Nancy Miller, “How are employers accommodating your disability? Federal public servants with visual impairments say their employer is failing to get them the tools they need to do their jobs. How well are employers accommodating you? Open lines with lawyer David Baker.” CBC Ottawa, 9 July 2015)



EHS children testify to Knesset’s Children Rights Committee

On 28 July 2015 an open discussion was held in Israel’s Knesset’s Children Rights Committee on WIFI and Tablet deployment in schools. The head of the committee “seemed to understand the essence of the situation, in which the vision is about wireless technology, not computer-based learning. I think it was clear to all the people that the Ministry of Education is not even considering wired internet connection in the classrooms and that its recommendation for such was only part of a deception plan to fool the parents, the supreme court, members of the parliament and the public while the Ministry

of Education has been installing only wireless routers and deploying wireless PC and tablets over the past 3 years.” In the picture EHS kids explain to the committee how it feels to be an EHS kid in a wireless classroom. (NoRad4U, 28 July 2015)



WiFi radiation warning signs – to help pregnant women

“Nassau County [New York] Legislator Delia DeRiggi-Whitton announced that she is proposing a bill that would place visible warning signs in all county buildings and facilities where a wireless router is located. ‘It’s about keeping our employees and the public safe, protected and informed to make choices about exposure to radiation which may negatively affect their health

and the health of their child.’ DeRiggi-Whitton said ... This new signage would allow those in county buildings to make their own determination as to whether they want to risk exposure, DeRiggi-Whitton said. ‘This bill would at least offer those women the peace of mind that when they enter a county facility here in Nassau that they will be warned so they can take the steps they feel are appropriate to keep themselves and their baby safe.’” (Justine Schoenbart: “Legislation eyed for Wi-Fi warnings in county buildings” The Island Now, 23 July 2015)

Disabled EHS person fined for not attending Australian court

Sofia Telemzougner, who was taking United Energy to the

Victorian Civil and Administrative Tribunal for compensation for disconnecting her electricity after she removed a new wireless ‘smart’ meter and reinstalled her old analogue one, asked for the hearing to be heard in Moorabbin because of her EHS. She said that wifi hot-spots and cell phone towers in Melbourne’s CBD, where the case was to be heard, would cause her pain. But the tribunal did not accept her excuse and ordered her to pay United Energy’s legal costs for “failing to comply with an order without a reasonable excuse”. Ms Telemzougner said: “I was just asking for a little bit of consideration for my disability.” She and her daughter Larissa, 15, had to live by candlelight from March to August 2014. She said she removed the smart meter because it made her ill. Her power was switched on again when the tribunal issued an interim order in August 2014 until the matter was decided. The case has now been put on hold until she pays the \$9500. (“ANTI-smart meter campaigner Sofia Telemzougner has been slapped with \$9500 legal costs after failing to turn up to a tribunal hearing because she was worried about being exposed to electromagnetic radiation” Herald Sun, 29 April 2015)

EHS person on government pension for 12 years

Wendy McClelland, 57, has been on a government disability pension since 2003 because of her EHS symptoms. She covers her face with a shielding cloth and sunglasses when she drives into Ballarat from her isolated property in country Victoria – and has been abused at traffic lights because people think she’s Muslim. (Mark White: “Brain on fire: Living with electromagnetic hypersensitivity” Sydney Morning Herald, 4 September 2015)

South Tyrol Parliament tackles WiFi and mobile radiation

On 10 June 2015 the State Parliament of South Tyrol, Germany, decided on a responsible implementation of Wi-Fi and cell phone networks as well as RF radiation exposure guidelines, allowing the application of the precautionary principle. This decision mandates the state government: (1) To replace existing wireless networks whenever possible with networks that emit less radiation at schools, preschools, hospitals, nursing homes, and other public facilities... (2) To establish a working group whose mandate it is to assess these new technologies and their exposure levels. With regard to wireless communication technologies, mobile Internet access, and public health, the working group shall clarify which technologies emit less radiation and provide sustainable technology options... (3) To start an education and awareness campaign that informs about possible health risks, especially regarding the unborn, infants, children, and adolescents and that develops guidelines for a safer use of cell phones, smartphones, and Wi-Fi ... ("Progress in South Tyrol: 'Applying the Precautionary Principle'" Kompetenzinitiative, 10 June 2015)



Tasmania challenge to phone mast

Jody Watkins, 40, of Garden Island Creek in southern Tasmania, has appeared in the Supreme Court to seek an interim injunction against the operation of an NBN (National Broadband Network) tower built near her home. Ray Broomhall, her barrister, said she had

serious health issues including electromagnetic hypersensitivity. Associate judge Stephen Holt said it would be able to be considered in the Supreme Court on 1 May. ("Court bid to stop NBN tower", The Mercury, 28 April 2015)

Blood analysis before mast erected

A grassroots movement is growing across Australia against new mobile or NBN towers. The community-based OREAD Project in Kyogle, NSW, adopted a biological approach to testing EMF effects ahead of a proposed NBN tower in the area. Twelve residents had their blood analysed, and the results were sent to NBN Co., Visionstream and Ericsson by Nimbin solicitor David Spain. If the tower is erected and subsequent blood tests show their health has been compromised, Spain says there could be grounds for an injunction or as a precedent in future planning cases. (Mark White: "Brain on fire: Living with electromagnetic hypersensitivity" Sydney Morning Herald, 4 September 2015)

Legal challenge after commission acknowledges smart meter health risk

A citizens group is appealing a decision by the Maine Public Utilities Commission on "smart meters" to the Maine Supreme Judicial Court. The Maine Coalition to Stop Smart Meters believes the PUC's decision does not do enough to protect the public's health and safety. In the 31-page opinion written by Commissioner David Littell, the commission does acknowledge a health risk from RF emitted by smart meters. "If limited RF... exposure is recommended by a doctor or medical practitioners, I would address the pending complaint by allowing for a ... meter in a no transmit mode or turned off at the ratepayer's

primary residence at no cost," the opinion states. That opinion is not reflected in the PUC's final ruling of no threat to health and safety. Complainants believe this means the commission has not ensured safety for all ratepayers, "as is their statutory mandate". (Walter Wuthmann "Maine opponents of smart meters take case to court of last resort" The Forecaster, 18 May 2015)

USA, Berkeley: legal heavyweights on mobile warnings

U.S. District Judge Edward Chen suggested that he would strip Berkeley's cell phone ordinance of its most far-reaching language, telling customers the devices may pose radiation dangers for children, which was not required by the FCC in manufacturers' product manuals, but might leave the rest of the city's warning message intact, over industry objections. He noted that the rest of the information that Berkeley wants is taken from FCC findings. CTIA's lawyer was Theodore Olson, the former U.S. solicitor general who successfully represented George W Bush in the 2000 presidential election dispute. Lawrence Lessig, a Harvard law professor and current Democratic presidential candidate who helped to draft Berkeley's ordinance, represented the city. (Bob Egelko: "Judge suggests he may side with most of Berkeley's cell phone law" SFGate, 20 August 2015)



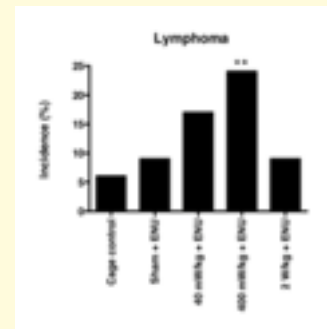
PROF. LERCHL: EM EXPOSURE AS A CANCER PROMOTER

Prof. Lerchl changes side: EM a cancer promoter, and not dose-response

“The RF–cancer story took a remarkable turn a few days ago. A new animal study challenged many of the assumptions which lie at the heart of claims that RF radiation — whether from cell phones, cell towers or Wi-Fi— are safe. The new study, from Germany, a replication of an earlier experiment, also from Germany, found that weak cell phone signals can promote the growth of tumors in mice. It used radiation levels that do not cause heating and are well below current safety standards. Complicating matters even further, lower doses were often found to be more effective tumor promoters than higher levels; in effect, turning the conventional concept of a linear dose-response on its head. Lerchl’s findings have prompted a sharp change in his outlook. Some years ago, he was almost ready to declare that RF is cancer-safe. ‘This new study, in conjunction with previous work, makes a much stronger case for an IARC classification of 2A, a probable human carcinogen,’ said David Carpenter, the director of the Institute for Health and the Environment in Albany, NY.” (“RF Cancer Promotion: Animal Study Makes Waves; Germany’s Alex Lerchl Does a U-Turn”, Microwave News, 13 March 2015)

Non-linear, non-thermal cancer promotion

This bar chart shows the non-thermal incidence (%) of cancers, with cage control and sham on the left, and 0.04, 0.4 and 2 W/Kg, where 0.4 is the highest. This shows that (a) it is a non-linear effect, and (b) it occurs nearly 10 times below current thermal safety limits (2 W/Kg). (Microwave News, 13 March 2015, from BBRC)



Lymphoma, liver and lung tumours

Prof. Lerchl said: “The effects on liver and lung tumors, as reported by ITEM in 2010, were fully confirmed ... In addition we found a significantly elevated rate of lymphoma due to exposure.” Some of the effects were seen at levels below the exposure limits for the general population. “Our results show that EM fields obviously enhance the growth of tumors.” (Press Release, “Higher tumor rates through exposure to electromagnetic fields” Jacobs University, 6 March 2015)

Wireless causes cancer confirmed: 2A carcinogen, “wake up alarm call”

On 8 March 2015 Powerwatch reported: “A new well conducted replication study [Lerchl A et al, 2015] shows that long-term 3G/UMTS microwave exposure can act as a co-carcinogen and statistically significantly increase cancer growth at very low exposure levels, 50-fold below currently permitted levels. Everyone using a 3G mobile phone or iPad or other tablet will be exposed at higher levels than this (0.04 W/kg). This study flags a big and important “wake up alarm call”. These are levels that many, if not most, of our children are now being exposed to WiFi at school, when using laptops and tablet PCs ... This should be adequate to change its IARC 2B rating (possible human carcinogen) into the 2A category (probable human carcinogen). We call on the EC to issue a warning to the general public, and especially schools ... As a UK-based group, we also call on the UK Department of Health to revise their Public Health England organisation’s website advice that currently supports schools in their use of WiFi for children of all ages.”

PROF. MARSHALL, ES AND CHRONIC DISEASE

Professor Marshall: 40% link - Electrosensitivity and immune system

Recently Prof. Trevor Marshall, director of the Autoimmunity Research Foundation, California, has provided an apparently important new insight into EM sensitivity. He has described how radio waves affect the human immune system and 90% of people who suffer from a chronic disease have their symptoms made worse by electrosmog. They are not aware of the radiation or their sensitivity to it, but it stops treatment from working properly. Since 40% of the population suffer from at least one immune disease and 90% of them seem sensitive to electrosmog, he suggests that ES affects a significant proportion of the population.

Public health impact: ES threshold below -55 to -90 dBm (0.002 V/m or 1 uW/m²)?

This sensitivity relates to the immuno-suppression threshold, given as -55 to -90 dBm (perhaps about 0.002 V/m or below 1 uW/m²), way below ICNIRP heating limits as used in the UK and even below the current 'biological' limits issued by Bioinitiative and others.

Videos by Prof. Marshall on ES and chronic immune disease: Two video lectures by Prof. Marshall link sensitivity to radio waves and immune diseases. Inflammation is potentially a greater threat than even brain cancer.

"Can Waves Cause or Cure Disease? The Human Psyche in a Connected Society" (15 November 2014, 32 min. www.youtube.com/watch?v=sMWkde5FIK8&feature=youtu.be)

"How Radio Waves Make You Sicker: Environmental Radiation Modulates Symptoms in Human Immune Disease" (16 June 2015, 20min. www.youtube.com/watch?v=37j2jDN8IVo).

Scalar biological waves allow nerves to affect molecules: Russian physicians already control diseases using 1 pW – 100 mW at 52-62 GHz on acupuncture points. The rotational speed of molecules is 1-10 THz and oxygen (O₂) resonance is at 60 GHz (the WiGig frequency). TNFalpha, the most potent anti-inflammatory, acts on the vagus nerve, shown to be linked with blood-glucose levels. Prof. K Meyl argues that nerves carry scalar rather than EM waves, now explained by an extension of Faraday's law of induction primarily rather than Maxwell's, and by Tomlin's observation that vortices change the speed

of transmission and thus change the frequency, because frequencies at 60

GHz, the vibrations of molecules, have to be slowed for the human nervous system.

Prof. Luc Montagnier, the Nobel laureate for HIV work, showed how water and magnetic fields can communicate DNA information. Prof. C Ventura showed how radio waves can change stem cells, a process done only with the help of viruses before then. Waves at 27.12 MHz go into phase, producing capacitive waves or longitudinal waves, now known to be a fundamental biological wave. This explains why people with chronic disease react to EM radiation, at -55 to -75 dBm (perhaps about 0.002 V/m or below 1 uW/m², relatively low compared with some cities nowadays, but very high compared with pre-industrial levels). Studies in Germany show that 95% of the population is exposed to levels greater than these. This coincidentally shows that ES effects are non-thermal, since these levels are far below thermal noise. They are typical of modern society, however, since a smartphone can show a 5-bar signal reception at -77 dBm.



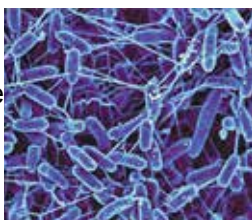
Capacitive Wave System (CWS) works via electrosensitivity, shown by blood-glucose levels: Shahbazi-Gahrousi D et al 2014 showed how ES symptoms such as headaches, dizziness and irritability are common <300m from a phone mast. This indicates progressive demyelination. Sensing the biological scalar or longitudinal waves or the capacitive wave system (CWS) is thus via electrosensitivity. F Rubino showed how, through by-passing the duodenum, different signals are sent to the brain via the Vagal nerve, relating to blood glucose. Thus the CWS involves changes in blood-glucose levels. The blood-glucose levels are therefore the first biomarker to use for clinical test on chronic diseases or diseases of aging.

Immune Sensitivity at -55 to -90 dBm: At a power level of 25nW, about 1 millionth of a cellphone, there are no effects on healthy people, but 90% of people with chronic inflammation disease mainly show effects, with about 50% positive and 50% negative, about 8% show weak effects and 2% no effects. The range of Immune Sensitivity is -55 to -90 dBm. The levels are about 1,000 times below most studies conducted on humans (at about -50 dBm according to M.Havas). Above -55 dBm immune suppression occurs. Since 95% of Germans are exposed to this level or above, 95% of Germans also have immune dysfunction. A 5-bar smartphone signal is -77 dBm. Immune dysfunction includes diseases such as CFS, MS, cancer, and premature ageing.



Chronic diseases and demyelination:

Microbes shut down gene transcription. 81% of people with chronic inflammation, such as rheumatic arthritis, MS, and cirrhosis, respond to gene stimulation for immunostimulation. The other 19% do



not. The way vibrational responses operate show that the state can be changed with non-ionising radiation. Nature already does this, shown in the way leprosy bacilli re-programme adult Schwann cells. Schwann cells in turn act on the myelin which sheaves the axon at the centre of the nerve. All chronic diseases, such as CFS, Lyme, MS, etc involve demyelination.

Two ES experiments: Prof. Marshall described two simple experiments which demonstrate that many patients with chronic disease also exhibit Electromagnetic Hyper-Sensitivity (EHS). The experiments are easily replicated, and the Autoimmunity Research Foundation is making available equipment to speed that process.

'CONSISTENT' ES SYMPTOMS IN TEENAGERS

Sweden worried about electro-sensitivity symptoms in teenagers

The Swedish Radiation Safety Authority's new report on EM health risks ("Recent Research on EMF and Health Risk: Tenth report from SSM's Scientific Council on Electromagnetic Fields", March 2015: 19) admits to a new and worrying trend of studies which are 'consistent' in associating electro-sensitivity symptoms and adolescents using mobile phones: "It is striking that in the last year several papers appeared on symptoms in adolescents and use of mobile phones. Quite clearly, these cross-sectional studies are consistent in that they report an association between mobile phone use in adolescents and the occurrence of symptoms." (p.80)



Five consistent studies showing ES symptoms: UK PHE advice outdated

The report lists five studies which consistently associate electro-sensitivity symptoms with mobile

phone use. They cover the years 2013 and 2014 [i.e. after the now outdated advice used by the UK government and its PHE of AGNIR 2012 and ICNIRP 1998]. "Considering the epidemiological characteristics of mobile phone use, precautionary measures to prevent unnecessary exposure to mobile phones are needed in children and adolescents" (Byun YH et al., Environ Health Toxicol, 2013).

Mobile phone use among 2,042 children aged 11-15 years in Taiwan "was associated with a significantly increased adjusted odds ratio for headaches and migraine and skin itches" (Chiu CT et al, J Formos Med Assoc., 2014).

"Increased duration of mobile phone use is associated with unfavorable psychological mood, in particular, a depressed mood" (Ikeda K et al, 2014, Environ Health Prev Med., 2014).

"The number and duration of cellphone and cordless phone calls were associated with increased risk of headaches (>6 cellphone calls over 10 minutes weekly, adjusted OR 2.4; >15 minutes cordless use daily adjusted OR 1.74) ... Using a

wired cellphone headset was associated with tinnitus (adjusted OR 1.8), while wireless headsets were associated with headache (adjusted OR 2.2), feeling down/depressed (adjusted OR 2.0), and waking in the night (adjusted OR 2.4). ... To safeguard young people's well-being, we suggest limiting their use of cellphones and cordless phones to less than 15 minutes daily, and employing a speaker-phone device for longer daily use." (Redmayne M et al, Environ Health, 2013).

"Headaches were reported significantly more often by the people who talked frequently and long in comparison with other users (63.2% of the subjects), just like the symptoms of fatigue (45%) ... Most symptoms appeared during or immediately after a call and disappeared within 2 h after the call. Continuous headache, persisting for longer than 6 h since the end of a call, was reported by 26% of the subjects. Our results show that the mobile phone users may experience subjective symptoms, the intensity of which depends on the intensity of use of mobile phones." (Szyjkowska A et al, Int J Occup Med Environ Health, 2014).

The report then suggests five different explanations. The most obvious conclusion is that the EM exposure causes the ES symptoms, as shown consistently in many studies since 1932.

The report, however, adds other, implausible, explanations, presumably to help the wireless industry, such as: other electronic devices, reverse causation, or the adolescents are symptomatic or an extraverted personality type.

ES symptoms from environmental causes

The report notes two further studies supporting the reality of ES symptoms from environmental causes.

“Even after adjustment for medical and psychiatric morbidity, environmentally sensitive individuals experience poorer

health, increased illness behavior and more severe non-specific physical symptoms (NSPS). The number and duration of self-reported NSPS are important components of symptom severity and are associated with characteristics similar to those of NSPS in primary care. The substantial overlap between the sensitive groups strengthens the notion that different types of sensitivities might be part of one, broader environmental illness.” (Baliatsas C et al, J Psychosom Res., 2014).

“The findings suggest an association between EHS and odor and noise intolerance” (Nordin S et al, Int J Environ Res Public Health, 2014).

The report also highlights DNA damage, based on Gandhi et al.

(2014, Electromagn Biol Med.) and erectile dysfunction, Al-Ali et al. (2013, Cent European J Urol.).

Response of Department of Health

The chair of ES-UK trustees wrote to the Rt Hon Jeremy Hunt, MP, secretary of state for health, noting this Swedish report on this ‘consistent’ evidence of ES symptoms and asking for the government warning that children under 16 should not use mobile devices except for essential purposes should be made more well known, especially in schools. The reply quoted the Government’s outdated reliance on reports such as AGNIR’s, although this was from 2012, before these new studies on acute ES symptoms in teenagers were published in 2013 and 2014.

SCIENCE AND EM HARM

Provocation studies invalid? - “Almost 100% consistency in showing adverse effects” from real mobiles

“Real mobile phone emissions are constantly and unpredictably varying and thus are very different from simulated emissions which employ fixed parameters and no variability. This variability is an important parameter that makes real emissions more bioactive.



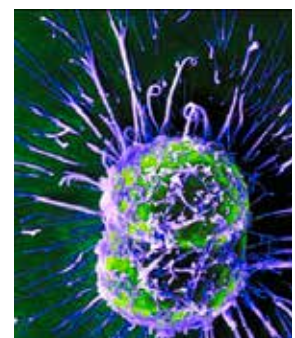
Living organisms seem to have decreased defense against environmental stressors of high variability. While experimental studies employing simulated EMF-emissions present a strong inconsistency among their results with less than 50% of them reporting effects, studies employing real mobile phone exposures demonstrate an almost 100% consistency in showing adverse effects. This consistency is in agreement with studies showing association with brain tumors, symptoms of unwellness, and declines in animal populations.” (Panagopoulos DJ et al, BioMed Research International, 2015)

ES symptoms long established

“Two U.S. government reports from the 1970’s-80’s provide evidence for many neuropsychiatric effects of non-thermal microwave EMFs, based on occupational exposure studies. 18 more recent epidemiological studies, provide substantial evidence that microwave EMFs from cell/mobile phone base stations, excessive cell/mobile phone usage and from wireless smart meters can each produce similar patterns of neuropsychiatric effects, with several of these studies showing clear dose-response relationships.” (Pall ML, J Chem Neuroanat., 2015)

Phantom limb pain reduced by EM shielding

“EM field shielding produced beneficial effects in those participants who could tolerate the liner. It is suggested that this might be due to protection of vulnerable nerve endings from nociceptive effects of environmental EM fields.” (Fisher K et al, Prosthet Orthot Int., 2015)



Electrical control of cancer cell growth

Dr Zhou said, “Our results may finally account for a long-standing but unexplained observation that many cancer cells actively try to reduce their electrical charge.” “This has huge implications for biology,” Dr Hancock said. “Beyond the immediate relevance to K-Ras in cancer, it is a completely new way that cells can use electrical charge to control a multitude of signaling pathways, which may be particularly relevant to the nervous system.” (“Scientists discover electrical control of cancer cell growth” Science Daily, 24 August 2015; Y. Zhou et al, Science, 2015)

Mobiles and early spontaneous abortions

“Our result suggests that use of mobile phones can be related to the early spontaneous abortions.” (Mahmoudabadi FS et al, J Environ Health Sci Eng., 2015).

Wi-Fi alters miRNA expression: neurodegenerative diseases

“MicroRNAs (miRNAs) play paramount role in growth, differentiation, proliferation and cell death by suppressing one or more target genes ... Long term exposure of 2.4 GHz RF may lead to adverse effects such as neurodegenerative diseases originated from the alteration of some miRNAs expression.” “We found that miR-106b-5p and miR-107 expression decreased 3.6 and 3.3 times in the exposure group, respectively. Therefore, we state that 2.4 GHz RF radiation emitted from wireless equipment may be associated with prognoses of some brain diseases because of the relation between some diseases and alteration in miR-106b-5p and miR-107 expression.” (Dasdag S et al, Int J Radiat Biol., 2015) “The significant effects on microRNAs observed in this study were found from Wi-Fi exposure that was well below the legal limit. The FCC’s whole-body exposure limit for the general population is 0.08 watts/kilogram. In this study, the average whole body exposure was 0.0001414 watts/kilogram (141.4 μ W/kg), and the peak exposure was 0.007127 watts/kilogram (7127 μ W/kg).” (Dr Joel Moskowitz, University of California)

Parkinson’s Disease and ELF-MF exposure

“Among men, elevated Hazard Ratios (HR) were observed for exposure to pesticides (eg 1.27) and ever high exposed to ELF-MF (1.54) ... Ever high exposure to ELF-MF was significantly associated with PD mortality, but there was no trend with increasing cumulative exposure ... When the analysis of ELF-MF exposure was adjusted for risk of electric shocks, the association between ever high exposure to ELF-MF and PD mortality became stronger (HR 1.81).” (Brouwer M et al, Occup Environ Med., 2015)

Compound harm: glyphosate, a 2A carcinogen, also affects the immune system

Immune system harm can be induced by other factors in addition to EM exposure, such as by the weed-killer glyphosate (Latorre MA et al, 2013, Uren Webster TM et al, 2015). Invented in 1970, glyphosate became common with genetically modified crops from 1996 as the active ingredient in Round-Up. On 20 March 2015 the World Health Organisation’s IARC classified it as a 2A probable carcinogen (IARC Monograph vol. 112; Guyton KZ et al, Lancet Oncology, 2015), based on links with non-Hodgkin lymphoma and lung cancer and its cancer promotion in animals (Schinasi L et al, Int J Envir Res Public Health, 2014). Glyphosate has been found in the air and rain-water. Since it cannot be washed off plants and is absorbed systemically into the plant’s cells, GM foods sold in California may need to carry a cancer warning (Mercola, 28 March 2015) and it may work synergistically with aluminium to cause pineal and neurological damage (Seneff S et al, 2015).

Children more vulnerable: money prevents action?

A new study confirms what has been obvious and known for a long time, that children receive comparatively more radiation than adults from a mobile phone (Gandhi OP



(2015) “Yes the Children Are More Exposed to Radiofrequency Energy From Mobile Telephones Than Adults” IEEE, 2015). “How can there be any doubt that children face a greater potential risk than adults. But that leaves the question as to why something so obvious is taking so long to acknowledge. After 15 years of feuding, a consensus is finally emerging that children have higher SARs. But even now, the MMF [Mobile Manufactureres Forum] stands apart and many others continue to hedge. We can’t explain the American Cancer Society’s inability to talk sense, but for others, motives are easier to decipher —all you have to do is follow the money. (It’s always about the money: see also our piece, “industry Rules RF”) (Microwave News, 10 July 2015)

Mobiles cause ES symptoms and cancer

“The scientists were right — your cell phone can give you cancer. There have long been whispers of a cancer connection from your cell — and a new study backs up the claims. “These data are a clear sign of the real risks this kind of radiation poses for human health,” study

author Igor Yakymenko said. Yakymenko's meta-study — basically a study of hundreds of other studies — reveals many findings of previous researchers into how radiofrequency from your phone can damage DNA. That damage can add up over time and cause a variety of health problems, like cancer, headaches, fatigue and even skin problems." (Meredith Engel: "Hold the phone, Central! Cellphone radiation can cause cancer: study" New York Daily News. 29 July 2015).

Brain cancer linked to mobiles

"Last Saturday, Joseph "Beau" Biden lost his life to brain cancer. The son of Vice President Joe Biden had a glioblastoma multiforme, or GBM. This all-too-common tumor has been linked to cell phone use." (Julie Fidler "The Brain Tumor That Killed the Vice President's Son Has Been Linked to Cell Phone Radiation" Public Health Watchdog, 4 June 2015)

Light at night disrupts melatonin

"The question is the extent to which circadian disruption compromises human health, and can account for a portion of the modern pandemics of breast and prostate cancers, obesity, diabetes and depression. As societies modernize (i.e. electrify) these conditions increase in prevalence.



There are a number of promising leads on putative mechanisms, and epidemiological findings supporting an aetiologic role for electric lighting in disease causation. These include melatonin suppression, circadian gene expression, and connection of circadian rhythmicity to metabolism in part affected by haem iron intake and distribution." (Stevens RG et al, Phil. Trans. R. Soc., 2015)

Fluoride, electrically negative, and hypothyroidism

Fluoride is more electrically negative than iodine, thus disrupting thyroid function in fluoridated areas. We found that practices located in the West Midlands (a wholly fluoridated area) are nearly twice as likely to report high hypothyroidism prevalence in comparison to Greater Manchester (non-fluoridated area). (Peckham S, J Epidemiol Community Health, 2015)

Mammals' magnetic sensitivity via radical-pair mechanism

"We demonstrated magnetoreception in wood mice and provide first evidence for a radical-pair mechanism in a mammal." (Malkemper EP et al, Sci Rep., 2015).

Plants also react electrically

A video from the Smithsonian Institute shows that a plant has an electrical reaction to a flame on one of its leaves. ("Do Plants Respond to Pain?" 2013, 3 minutes, www.youtube.com/watch?v=fGLABm7jJ-Y.)

SCIENTIFIC CRISIS: WHO & ICNIRP

EHS AND DA COSTA'S SYNDROME

Major obstacle in EHS research: "attitudes of Oftedal, Rubin, Croft and others"

Prof Dariusz Leszczynski, reporting on the Bioelectromagnetics Society (BioEM) conference of 14-19 June 2015, stated: "the major obstacle in solving the problem of EHS and EMF are the attitudes of researchers, lacking ideas for novel approaches. If research on EHS will continue the way, as Oftedal, Rubin, Croft and others

are doing, we will never resolve this issue." Gunnhild Oftedal's presentation claimed "there is no link between EHS and EMF. Whatever causes symptoms in people is not EMF", although she based this claim on a mere 1,063 subjects in just 44 studies of subjective symptoms, with no reference to objective studies of, for instance, protein and gene expression. (BRHP, 3 July 2015)

Need for objective differences: "research stagnation"; Mild: Da Costa's syndrome

Prof Leszczynski also reported that "Kjell Hansson Mild reviewed the history of EHS research [but only from 1980s, and not from 1932 when it was first discovered.]. There were no new ideas for further research. Talk showed a stagnation in research, focused on asking the volunteers "how they feel" and "what they feel" instead of devising studies

that would objectively look at the differences in physiology of EHS sufferers. Kjell Hansson Mild arrived at the conclusion that EHS symptoms “fit” the already known Da Costa’s syndrome. By “definition”, Da Costa’s syndrome is exceptionally unspecific and the majority of human population “has it”. Thus is not the way to demonstrate that EMF causes EHS.” (BRHP, 3 July 2015)

Da Costa’s “Irritable Heart Disorder”

Jacob Mendes Da Costa (1833-1900) was an American doctor who documented “irritable heart” disorder, renamed Da Costa’s syndrome after his 1871 study of soldiers in the American Civil War (1861-5). Arthur Myers of the Coldstream Guards in 1870 had called a similar condition “soldier’s heart”. Symptoms of this non-valvular disease are left-sided chest pains and palpitations but no physical abnormalities. Earl de Grey’s committee in 1864-5 blamed tight-fitting webbing and heavy chest packs, but some army doctors noted an association with smoking.

Da Costa’s Syndrome, Post Traumatic Stress Disorder and objective markers

Da Costa’s Syndrome is now described as a psychobiological stress disorder. Similar stress disorders became common during the Great War. The term “shell shock” was coined by Charles Myers in 1915 but it was soon censored and banned as a diagnosis. Modern terminology has reclassified most stress disorders like Da Costa’s Syndrome and similar stress effects as “Post Traumatic Stress Disorder” (PTSD). This term was adopted by the American Psychiatric Association’s



“Diagnostic and Statistical Manual of Mental Disorders” (DSM-III) in 1980. PTSD has recognised symptoms, now identified objectively as well as subjectively. Recent studies see PTSD as related to pro-inflammatory markers, pre-senescence, and inflammation, with protein expression providing an objective marker. (e.g. Eraly SA et al, “Assessment of plasma C-reactive protein as a biomarker of posttraumatic stress disorder risk” JAMA Psychiatry, 2014; Lohr JB et al, “Is Post-Traumatic Stress Disorder Associated with Premature Senescence? A Review of the Literature” Am J Geriatr Psychiatry, 2015) PTSD uses conscious or subconscious memories to produce stress symptoms.

Although these stress symptoms may be similar to those from stress caused by EM exposure, both using the same opioid system, the causes are usually entirely different. EM exposure can cause stress directly, without any role for cognitive memory. ES symptoms, for instance, can be purely genetic, related directly to genetic haplotypes and independent of cognitive processes. In addition, the fact that ES symptoms occur in animals and young children and ‘unaware’ adults also indicates that cognitive memory and fear or Nocebo effects are essentially irrelevant to ES stress symptoms.

BioEM conference needs new approach

Da Costa’s syndrome, therefore, cannot explain the vast majority of EHS cases which can be related directly to EM causation via different biological pathways. Such a weak hypothesis as Da Costa’s syndrome ‘explaining’ EHS has no supporting evidence, since most EHS people have not had military experience as combatants or even seen warfare, apart from via the

media. It would be helpful for the growing medical problem of EHS if the BioEM had as their speakers on EHS researchers with personal experience of EHS or researchers with experience of objective molecular studies on EM sensitivity or physicians who regularly diagnose and treat people with EHS. Sceptical scientists appear to be searching for an ‘explanation’ acceptable to the wireless industry.

Sandström and Mild: “sceptical”

“Dr. Monica Sandström of the National Institute for Working Life in Umeå, who worked on the Eriksson survey, is among the many who are skeptical of an EMF link. Sandström and NIWL’s Dr. Kjell Hansson Mild have previously suggested that the electro-sensitive have “hyper-reactive” nervous systems, making them more susceptible to stress from sensory stimuli such as flickering light (see MWN, M/ A97). Sandström told Microwave News that she and Mild have new results which “confirm our earlier findings” on nervous susceptibility while providing “no indication” that magnetic fields play a role in electrosensitivity.” (Microwave News, July/August 2000, p.12)

Industry links: IT’IS, SCENIHR, Niels Kuster, COST BM0704, Richard Adams

“IT’IS was the grant holder of COST BM0704, the project that yielded the recommendation Richard Adams used to promote cognitive behavioral therapy for EHS. Three of SCENIHR members (or working group) were involved in COST BM0704 including the Chair.” (John Weigel, 6 July 2015) “Lancet Oncology, the journal which published the official announcement of IARC’s decision to designate RF radiation as a possible human carcinogen, has issued a correction to the conflict of interest (COI) statement it had included for Niels

Kuster, the Swiss researcher and entrepreneur based in Zurich. Kuster attended IARC's evaluation of RF radiation in May 2011 as an "invited specialist." Kuster is the founder and director of IT'IS, a non-profit group that was created with the financial support of the mobile phone industry, notably Motorola, as well as of Speag and its parent company, Near Field Technology, that markets measurement instrumentation and simulation software. In a "correction" posted today, Lancet Oncology added the following to Kuster's COI: "IT'IS has received funding for specific projects from most mobile phone manufacturers and many service providers, including the Mobile Manufacturers Forum, Motorola, Ericsson, Nokia, Samsung, Sony, GSM Association, ARIB Japan, Swisscom, Deutsche Telekom, and TDC Sunrise." This statement appeared in the COI statement that Kuster filed with IARC on 24 May, 2011, the first day of the RF meeting. Kuster's COI is the only one that has been corrected. IARC invited representatives of three different industry groups, CTIA, MMF, and GSMA, to be observers for the 10-day meeting, while at the same time barring the press from attending." ("COI Statement for IARC's RF Review Updated: Kuster's Work for Industry Detailed", Microwaves News, 25 June 2015)



WHO and ICNIRP: failure to record Conflicts of Interest?

A 20-page document (Vallisoletana Association of People Affected by Mobile Phone Antennas (AAVATE) "There appears to be a Conflict of Interest between the WHO and the ICNIRP", 10 July 2015) lists numerous apparent Conflicts of Interest by members and advisers of the private pro-wireless pressure group ICNIRP, which is apparently against the principles of the WHO, which has unusually adopted this pressure group as its adviser on EM exposure.

Letter to WHO and EMF Project: RF is a class 1 human carcinogen

Dr Lennart Hardell has published his letter of 4 August 2015 to Dr Margaret Chan at the World Health Organization and Dr Emelie van Deventer at the WHO's EMF Project, asking for a response to his submission on the mistakes in the WHO draft monograph on RF Fields and Health Effects; a similar letter was sent to IARC asking for new cancer risk evaluation. "On 15 December, 2014 we submitted comments on the WHO draft on radio frequency fields and health. Since we have not got a satisfactory reply from WHO, not seen a revision of the draft, and adding to that more published studies that reinforce the increased risk for certain brain tumours associated with use of wireless phones we want to submit the following, additional comments. The brain is the primary target organ for exposure to RF EM fields (RF-EMF) during the use of the handheld wireless phone. This has given concern of an increased risk for brain tumours. The carcinogenic effect of RF-EMF on humans was evaluated at a meeting during 24 – 31 May 2011 at the IARC at WHO in Lyon, France ... Since then more studies have been published that strengthen the association between use of

wireless phones (mobile and cordless phones) and increased risk for brain tumours ... We concluded that based on the Hill criteria, glioma and acoustic neuroma should be considered to be caused by RF-EMF emissions from wireless phones and regarded as carcinogenic to humans, classifying it as Group 1 according to the IARC classification ... Our conclusion is that RF-EMF should be regarded as a human carcinogen. The IARC classification should be updated to at least Group 2A, a probable human carcinogen. Current guidelines for exposure need to be urgently revised. The WHO Monograph draft on this issue is based on selective inclusion of studies and wrong assessment of the evidence of increased risk."

UK Anti-Corruption drive

"The Prime Minister said last night that he was determined to use the publicity surrounding the FIFA corruption scandal to lead a drive against the 'cancer of corruption' both at home and abroad." (Daily Mail, 6 June 2015)

WHO, ICNIRP and SCENIHR: "denial, deceit and manipulation"

In an article called "EMF health hazards" Alasdair Philips (Caduceus, no.91, Summer 2015, pp.15-17) exposed the deceitful denials at the heart of international regulators, like the World Health Organisation, ICNIRP and SCENIHR, who now lag far behind the medical science. Many regulators work for or have links with the wireless industry. Many are not doctors but physicists who know little or nothing about the details of medical hazards from non-thermal EM exposure. Many still believe in the hypothesis that the only hazard is heating, a claim invalidated many decades ago.

WHO unfit to deal with global emergencies

The World Health Organisation is 'culturally' unfit to deal with global emergencies, an independent review has found in the wake of the Ebola crisis. Experts called for a fundamental overhaul of the body, a branch of the United Nations, which was severely criticised for its failure to deal with the disaster last year. A panel chaired by Dame Barbara Stocking, former CEO of Oxfam GB, found that the episode exposed serious problems within the structure of the WHO and

the actions of those it employed. (Ben Spencer: "World Health Organisation is 'unfit to deal with global emergencies', says damning new report into its handling of the Ebola epidemic" Daily Mail, 8th July 2015)

Time to replace ICNIRP

"Perhaps it is time for the WHO to replace ICNIRP with an expert committee that has greater expertise regarding non-ionizing radiation protection and use this committee to establish the WHO guidelines for wireless radiation." All ICNIRP members

come from the radiation industry national committees. None are independent experts in diagnosing and treating people with real EHS. (Safe EMR, 16 June 2015)



SCIENTIFIC CRISIS: EUROPE & SCENIHR

Crisis of pro-industry bias in European 'science' continues

The International EMF Alliance has published a detailed critique showing the major flaws both in the science of the worthless SCENIHR report of 2015 and the bias in almost all of its authors.

1. SCENIHR report "blatantly fails"

"The European Commission has once again failed in setting up an expert group that meets its own principles of 'of excellence, independence and impartiality, and transparency' (5 August 2008). The 2015 report is written by an unbalanced expert group and most of are not free from influences and ties to the industries that have huge economic interests in the outcome of such opinions. The experts behind the report blatantly fail their main mission: to identify 'potential health risks' ... They also present studies in a manipulative way ... This rather limited group of experts that wrote the SCENIHR report had previously clearly expressed their negative attitude to possible health effects from EMF – in well known contrast to the opinion of

a large and increasing number of the scientific expertise of the EMF scientific arena ... We call for a new balanced assessment that better meets the Commissions own principles. A new balanced and objective report, without the influence from industry biased experts, is urgently needed if the Commission do not want to continue to put Public Health at serious risk by policies based on incomplete, severely biased and false information. The SCENIHR report at hand is a disservice to and a threat to the health and wellbeing of the people of Europe."

2. No unbiased EMF health experts

"The Scientific Committee is made up of 14 experts, but only two are experts on EMF, Samaras and Leitgeb. Neither are health experts, they are technical oriented experts (physics, engineering) ... The other 12 members Committee are not experts on health effects from EMF and have had no possibility to judge what is right from what is wrong in the report. This is a lack of excellence on

potential health effects from EMF in the scientific committee ... However both Mr Samaras and Mr Leitgeb have ties to industry and organizations with a pro-industry attitude to health effects. They have repeatedly taken the industry friendly position that there are no health risks (intellectual bias). Both Mr Samaras and Mr Leitgeb are at present or have been members of standard setting organizations Theodoros Samaras in IEEE and Norbert Leitgeb in ICNIRP. The organizations are well known to act in favor of industry interests and are long time deniers of possible health effects below their own standards to which the industry has adopted its products and technology: The standards from IEEE and ICNIRP are supported by industry and IEEE is dominated by industry representatives ... The majority of the working group's members also fail to meet the principles of independence and impartiality."



3. Scientific conclusions from the evidence: “consistent evidence of harm”

“A rational assessment of this body of scientific literature would reasonably conclude that:

- A. There is consistent evidence of harm for many possible health effects, considerable reasons for concern, as presented by Bioinitiative group in their 2012 report and in their comment to the Commission on the SCENIHR report 2015, and as concluded by 190 EMF scientists in May 2015.
- B. There is a division among the experts in the field and inconsistencies in the research results. Inconsistencies in research results cannot be used as an argument (as in the SCENIHR opinion) that there is no risk. A growing and significant number of research results invalidate opinions that there are no potential health effects.
- C. There are strong economic interests from the industry concerned, why industry funding of research outcomes and of experts are important to take into consideration and highlight.”

4. Biased SCENIHR report should be replaced by a balanced and independent report

“The NGOs therefore demand:

- 1. An annulment of the SCENIHR report on EMF health risks.
- 2. The appointment of a new balanced, transparent and contradictory expert group without conflicts of interest by an unbiased steering group.
- 3. A new balanced and independent assessment.
- 4. The establishment of a permanent stakeholder committee at DG SANCO, where NGO viewpoints can be truly pronounced and considered in the decision process on EMF policy, legislation, research and expert assessment.”



Emily O’Reilly, the EU Ombudsman, inquiry in EC’s “expert” groups

On 19 December 2013, the European Ombudsman closed her inquiry into complaint 1682/2010/(ANA)BEH lodged by Alter-EU against the Commission for maladministration in the area of expert groups. On 12 May 2014, the Ombudsman started her own-initiative inquiry into the Commission’s expert groups with a public consultation. The main problems raised in the contributions concerned the inconsistent categorisation of organisations who participate in expert groups, the perceived imbalance in favour of corporate interests in certain groups and potential conflicts of interest of experts who participate in their personal capacity.

Press release no. 2/2015, 30 January 2015: “How to make the Commission’s expert groups more balanced and transparent”. The EU Ombudsman, Emily O’Reilly, has made proposals to the European Commission on how to make its expert groups more balanced and transparent ... The Ombudsman calls on the Commission to establish a legally binding framework for all expert

groups, including a definition of what balanced representation in different groups should look like. She also recommends measures to reduce potential conflict of interest situations and to publish more information about the work of the groups. The Commission should reply to her proposals by 30 April 2015.

Press release no. 10/2015, 3 June 2015: “Expert groups” The EU Ombudsman, Emily O’Reilly, has welcomed the Commission’s agreement to improve its system

of expert groups in response to proposals made by her in an own-initiative investigation. The Commission has said that it will develop a new conflict of interest policy for experts appointed in a personal capacity. It also announced that the selection procedure for experts will be more transparent, including an obligation, where relevant, to be registered on the Transparency Register. Furthermore, the Commission plans to revise its expert groups register in 2016. Emily O’Reilly stated: “The Commission’s response to my first set of suggestions is encouraging and should help to secure the full range of expertise needed and increase the transparency of the process, which is key to building public trust. However, the Commission still needs to do more to open up the important work of these groups to public scrutiny, in particular by publishing detailed minutes of their work. I also intend to examine closely the reasons put forward by the Commission for not adopting a new legal framework for expert groups.”

EC’s response to EU Ombudsman’s inquiry on EC’s “expert” groups

The EC’s opinion in response to the Ombudsman’s inquiry suggests only a few changes, seemingly mainly cosmetic. It does not address the crucial issue of where a supposedly “expert” group lacks balance and is effectively a single-opinion pressure group representing a minority scientific opinion, as in the case of the SCENIHR report of 2015.

Case: OI/6/2014/NF, opened 12 May 2014. Types of maladministration alleged – (i) breach of, or (ii) breach of duties relating to: Lawfulness (incorrect application of substantive and/or procedural rules) [Article 4 ECGAB]

Complaint to the European Commission

The Complaint to the European Commission concerning the 2015 SCENIHR opinion on potential health effects of exposure to EM fields. 31 August 2015.

“The European Commission has once again failed in setting up an expert group on the health effects of exposure to EM fields that meets its own principles of “of excellence, independence and impartiality, and transparency”. The 2015 report Opinion on potential health effects of exposure to EM fields SCENIHR is written by an unbalanced expert group and most of them

are not free from influences and ties to the industries that have huge economic interests in the outcome of such opinions. The experts behind the report blatantly fail in their main mission: to identify “potential health risks”. The complaint demands:

1. An annulment of the SCENIHR report on EMF health risks.
2. The appointment of a new balanced, transparent and contradictory expert group without conflicts of interest by an unbiased steering group.
3. A new balanced and independent assessment.

4. The establishment of a permanent stakeholder committee at DG SANCO, where NGO viewpoints can be truly pronounced and considered in the decision process on EMF policy, legislation, research and expert assessment.



ES STORIES

“My story so far”

Diana gives her views, after 11 months of research. I have realized that the following may possibly provide some insight to others, especially newer ‘victims’.

I live in a remote, mostly silent, rural location on a little-used lane; my nearest neighbour is ¼ mile away. I live a very low-tech lifestyle and have extremely few electrical appliances and no TV; the only one permanently plugged-in and on is the fridge! So you can understand why I was puzzled by what on earth was suddenly causing weird symptoms! Only now do I realize that it’s due to the permanently increasing rise in both signal-strengths and a plethora of devices being used everywhere. TV signal-strengths have been increased too, since the introduction of ‘digital’, and I have 3 masts on my horizon. I frequently get thumps in my head even when a vehicle goes by, presumably from their GPS or mobile. Unlike most people leading



busy working-lives, I have the time and leisure to observe these things. I also have a ‘sense’, when the computer’s merely on but offline, that something is invading all my body’s orifices! Clearly, one of the major problems with recognition of EHS, is that we all have different reactions, just as everyone has different reactions to some foods - an analogous fact that I think we need to keep plugging.

Although I only became aware of ‘EHS’ as a ‘condition’ in 2014, following a serious ‘zapping’ from my local farmer’s radio-equipment, like being repeatedly stabbed in the skull by a 12-inch needle, which damaged my right eye, and subsequent severe symptoms and many months of research, I’ve realized, on reflection, that I’ve clearly been a ‘candidate’ nearly all my 70 years of life. It began with my inability, in childhood, to wear a mechanical watch. They always stopped on me, but started again when I took them off. I seem to have too much magnetism in my body, and it upsets the mechanism. This has made me wonder that, if someone were to test EHS sufferers for our natural magnetism, this might possibly offer some proof of our individuality (unlike the flawed ‘Essex’ testing). So, the ‘writing was on the wall’ back then. Then, for some over ten years now, I’ve had mild dizziness

in certain public buildings but, as anyone would, I never even thought to relate it to the environment, but assumed it was 'personal'; only now do I realize that this was obviously related to the beginning of our current swamp of EMFs.

Nowadays it's clear that I get different reactions to different aspects of EMFs and EMR: (a) the computer-screen affects my eyes; (b) transformers create dizziness, and possibly, a not-too-distant private wind-turbine, as well as a farmer's private WiFi mast, allegedly for 'tractor-to-tractor communication', as stated on his self-certified planning permission, but his son told me otherwise, that they use it for WiFi access. The 'powers that be' are completely uninterested, to the extent of the 'environmental health' chief sending out the police, in lieu of defunct social services, to check on my sanity! This was after I quoted relevant extracts from the electronic health record provisions and merely requested that they test its signal-strength. He also wrote to my doctors' surgery, which sent me a letter 'inviting' me to "discuss my health"! He clearly needed to 'cover his back'.

This time last year I didn't even know what a 'transformer' was, let alone their hazardous nature! And, to my shame - now! - I was a Green party supporter of naive energy-savers (see the film 'Resonance': www.youtube.com/watch?v=oS6FGzh3ygw). I ditched my electric toothbrush when I discovered the extent of the radiation from the charger and transformer! I suggested to my 'alternative-minded' retiring GP that she might like to get involved with Dr Erica Mallery-Blythe's 'Phire' project, but I got rebuffed! Sadly, my GPs Surgery is of the conventional attitude to EHS, viz "There's no proof"! I haven't obtained any 'shielding' or other 'aids', bar an ethernet cable and ditching all the CFLs kindly supplied by our clearly-naive government in aid of energy-reduction, without any warning that they might be detrimental to our health, because so many people appear to have retained their symptoms despite such purchases, and they wouldn't address the situation for going outside.

I think very many people just are more sensitive

than others to EMFs & EMR. Indeed, the warnings were 'out' from scientists even back when electricity began its roll-out in the UK early in the last century, when affected people, women mostly, were being sent to 'Lunatic Asylums' for complaining, without, then, being aware of the cause, and it was called 'The Rich Persons' Disease' because only they, initially, could afford it. But even back then there was obviously too much 'profit' involved for the issues to be taken seriously.

There are very few public places or events that I can now venture into: no more singing-group, theatre etc. Even walking on my local seaside promenade causes me to stagger along as if drunk - the whole town's Wi-Fried! and the power from offshore windfarms being brought ashore via transformers and inverters. Any social life is over - I'm a prisoner, alone in my contaminated home. On a basic State Pension, I have neither the money or 'know-how' for sophisticated systems. So my only option is avoidance. I'll 'rest my case' there for now!

ES in the UK: "I hardly ever go to public places"

The French court's legal recognition of EHS could have encouraging implications for British sufferers, like Mary Coales. The 63-year-old former civil servant and Cambridge graduate can't go to theatres, restaurants, cinemas, airports, or parks for fear of picking up agonising electromagnetic signals. And whenever she leaves the house she wears a special silver gauze jacket to earth herself from the radiation. She said: "The pain I've suffered is very real. At its worst, it has felt like I'm being tasered inside my mouth. I've had to change my entire life to find ways to avoid being exposed to wifi and phone signals. Wi-Fi is everywhere now, so it's very difficult to avoid. It's even more difficult to avoid people with mobile phones.

I hardly ever go to public places, and only go to friends' houses if they have switched everything off beforehand."

(Julian Robertson:

"Woman who claims she is allergic to Wi-Fi is

awarded £650 a month in disability grants by French court" Daily Mail, 31 August 2015)





My ES Story: “my only distance communication is written letters”

by Eleanor from Australia.

If someone had told me years ago that I would become biologically reactive to electrical frequencies, I would have not believed them. I am sure many would not believe me now. I have very severe EHS and MCS. And my husband Mark and I can't express how difficult our journey has been to date. Having no prior concerns about technology, this condition started for me when I initially noticed symptoms and me becoming sensitive, meaning biologically reactive to computers and RF radiation emitted from mobile phones and WiFi when exposed to the devices.

The symptoms were first mild and noticeable reactions cleared very quickly after discontinuing exposure to such devices. Over time I found myself reacting after shorter periods of exposure and developing new symptoms while exposed to the devices. Knowing nothing about EHS initially, I naively kept using these devices in an attempt to lead what is now considered a normal life.

I found that larger exposures increased my overall sensitivity and at the time I started experiencing delayed recovery time after being exposed to EM radiation (EMR). I also noticed my reactions accumulated and were load dependent. Sadly for me this new condition has proven to be cumulative and progressive, in the sense that once I reached, a certain biological damage threshold, my body seemed to be unable to regulate, protect and repair itself fully after exposures to EMR from such devices, thus leaving me more sensitive and vulnerable to further EMR exposures. At this stage I became sensitive to very small exposures of EMR from greater distances, with increasing intensity and variation of symptoms. I also experienced a type of spreading phenomena which made me biologically reactive to frequencies other than RF, including electrical and magnetic fields.

Words can't adequately express the concern I had about just what was happening to my body. This condition for me is also progressive in the sense that at this stage I completely lost the ability to use the devices I was reacting to, my symptoms being too great. I have never gained tolerance to these devices and frequencies over time.

I am now unable to use a computer, mobile phone, WiFi of any kind, including the installations of Smart Meters on mine or neighbouring properties. I can no longer use a cordless phone, a land line phone, many electrical devices especially with motors. I cannot be in dense electrical fields while operating or being near electrical devices. My fridge is in the garage which is turned off before I access it. I cannot use fluorescent lights, all modern gadgetry, my appliances such as the oven and washing machine are operated by special switches many metres away and I am now reactive to mobile towers.

As a consequence I sleep in a faraday canopy. I live without TV, radio, music, computers, phones and lights. My only means of distance communication is written letters. I cannot fly, travel long distances, or be in friends' homes, I am unable to work, shop, attend public spaces due to other people's mobile phones or attend church. I am completely dependent on my husband. My life is severely restricted and severely compromised; you may say I am allergic to certain aspects of the 21st century. I had to leave my home at Wollongong to try to find refuge in a regional area less populated. How ironic is my situation, that in a world that is now so dependent on technology, I am forced to live in some ways as one would have lived centuries ago.

The only proven treatment and management I have found to try to help myself as an EHS sufferer is avoidance of all reactions from EMR exposures and to avoid as much human generated EMR as possible, which is extremely difficult these days because of the level of RF radiation now in our environments. My home had to be re-designed to provide a low EMR environment for me and has been partially screened.



From my own experience and research, I believe EHS to be an environmentally induced illness and a form of radiation sickness that affects one's whole being. From a lay perspective I would imagine EHS to be a neurological illness, affecting the brain and central nervous systems, causing bioelectrical and biochemical changes. This in turn creates a complex multi-system illness.

I am very concerned about my future with EHS and just how damaged I may become. RF radiation is increasing. I have recently read in the paper 499 new mobile towers are to be installed. RF radiation in our environment at these levels has only been in existence for the last decade and is not the type of energy we as a species were evolved to tolerate; nothing is known yet about long term effects, though we are all aware of the ever increasing rates of cancer. Needless to say, I now have major concerns about how our technology is being delivered to us. The roll-out installation of Smart meters and mobile phone towers emitting radiation around the home and neighborhood environment of individuals that are sick with EHS is extremely dangerous for their health and wellbeing. As a mother I am also motivated to speak my concerns for my son and future generations; he shares my genetics. EHS sufferers are a growing number of persons worldwide that are saying that we are biologically affected and made sick by exposure to RF radiation.

WiFi router: heart palpitations and headaches

Steve Weller, a 46-year-old IT specialist, moved his family from Melbourne to Brisbane because of EHS, but continues to search for a "haven". He describes his symptoms as akin to "a tight-fitting hat being pulled down on your head, often accompanied by a pricking feeling over the scalp". Steve Weller started suffering symptoms – heart palpitations and headaches – when he installed a wireless router



in his home in 2001. The symptoms immediately dissipated once he turned the router off. He went on to spend more than \$20,000 on shielding his house,

which didn't stop the pain and discomfort coming on when he was outdoors. In 2013, he finally left Melbourne to escape the compulsory statewide rollout of smart meters to measure electricity use, commonly blamed by Victorian EHS sufferers as provoking symptoms. The notion of EHS would once have been "rubbish" to Weller. "I was addicted to my smartphone and playing computer games," he says. Wireless technology gives us so much freedom that people don't want to accept that it may come with a cost, he adds. (Mark White: "Brain on fire: Living with electromagnetic hypersensitivity" Sydney Morning Herald, 4 September 2015)

ES Story: "I could tell when their cell phone was about to ring"

"José Lévesque installed commercial wireless telephone stations from 2001 to 2009. The resident of Saint-Colomban (Quebec) says in late 2005 he suddenly developed an intolerance to the radiofrequency (RF) microwaves emitted by these devices. 'At first it pinched in my ear when I phoned. Even though I used a good headset, I was dizzy and my ears were ringing. Then I woke up one morning and walked as if I was drunk and heard a tone, like a smoke detector in my ear.' Lévesque finally quit his job in 2009 when his so-called electrohypersensitivity (EHS) worsened. 'Today, my face goes numb, my head aches and if I continue to expose myself to RFs, I even get nose bleeds or blood vessels burst in my eyes. It happened to me in a hospital with wireless phone and Wi-Fi antennas! We used to laugh about it at work: I could tell my colleagues

when their cell phone was about to ring because the entering signal hurt my head.' But it is no laughing matter: 'Since smart meters were installed in my neighbourhood in January 2013,



my headaches are constant.' Levesque told Health Canada and Public Health officials he would volunteer to get tested so they could measure his biological responses to microwaves. They refused. 'It's easy to say that this is the nocebo effect when you do not want to test me because you're afraid of being accountable and have to act accordingly, he says. I know that the tests would be full of consequences for me: my symptoms appear 5 to 10 minutes after a Wi-

Fi router is turned on close to me, and then I can be sick for three or four days. But if it can help people to realize the dangers of wireless...” (André Fauteux: “Electrohypersensitivity conference debunks ‘nocebo effect’ theory” La Maison du 21 Siècle, 25 June 2015)

ES story: sensitised at 10 years old

Excerpts from the “Testimony of Violette Gould, Couserans, Ariège, from August 2014, 14 years old and electrohypersensitive” in France (trans., Towards Better Health, 12 July 2015) “It is all that I could do to participate in this gathering. However, to be present, to meet other people, to exchange..., I dream of this! To throw myself into the world, build with you... My “fate” denies me this. But is it really my “fate” denying me this? I am going to tell you the story of the disaster which is occurring in my life. You may then form an opinion about responsibility for my fate. I am now 14 years old. When this began, I was 10. Until that moment, my life had been normal: family life, school, my friends, my love for the mountains of Ariège... Great Happiness. The beginning of the catastrophe occurred during the start of the 5th year in school. I will forever remember this period as a nightmare. It is like a person confined in the prison at Guantanamo: locked up, tortured.

Like all students, I returned to school, was with my friends, teachers... During the first week, I suffered an unbearable headache. “Break” at home... Return to school, near-immediate return of the headache. Unbearable, Torture. Return home for several days... during the

month of October, I attended school only a third of the time. Very quickly, I realized that the presence of a cell phone, as well as an emitter of the relay antenna type, Wi-Fi, Wi-Max violently set off the headaches. Near-constant pain. Torture. I consulted Professor Belpomme. The result of the consultation came as a shock:

harm to the blood-brain barrier, a very great deoxygenation of the brain... After maximum protection, the damage lessened. Only, what did



not subside was that each exposure to pulsed EM waves awakened the torture. It is violent, very violent. I continued my education through the long-distance learning center (CNED).

Why did this intolerance occur so suddenly? We noticed that a 3G emitter had been installed during the summer on an antenna near the school. Since then, the number of wave emitters has been increasing. I am more and more driven back into my “protected” space, which is becoming my prison. I have all the same found an activity that I am passionate about: Aikido. I can only go because a group of civilized persons practice it: they systematically switch off all cell phones when I am there. It is also a place relatively protected from outside emissions. But I remain limited in possibilities for a social life: no concerts, no shows, no movies, no stores, no kind of outing in town... So, sometimes I snap.

This year I did not resist the temptation to go to the music festival in St. Girons... I escaped my prison for two hours in order to do like everyone else, to have the same possibilities as other people. I rebelled, faced with my intolerance to EM fields. I do not want it, I do not want to live with it any longer. It has gained the upper hand! I was knocked out in bed for 8 days with an unbearable headache and since then, an intolerance that has increased. Do you know that even the mountains, my wilderness, are no longer accessible except in very rare places, the bottom of very deep valleys or small valleys where no one thinks of going, which turn their back on human conquest?

Because even in the mountains, there are antennas everywhere, which emit very powerfully... I let you form an opinion about responsibility for my “fate” in the face of this disaster. I reject all responsibility for my “fate” and that, in my own way, I will fight. Because I am convinced that I will not suffer the “deviations of polluting technologies”, because in the name of freedom and equality, I will find the gifts that life has to offer. I refuse that they will be taken from me. I am asking everyone to educate themselves and to act against the development of pulsed EM waves!”



Former army commando: “Little namby-pambies. Then it happened to me.”

Bruce Evans, a 50-year-old web designer and former Australian Army commando, has a vision for sufferers of EHS. He wants to build a community in an area of low EMF emissions, known as a White Zone, where victims can live and thrive together. There are a handful globally, largely in northern Europe and the US. Evans' community could take root at his dad's farm at Myrree, in north-east Victoria, on land his family has worked for 150 years. It could then expand through the valley, a dead zone for mobile phone signals ... for now, at least. Evans moved to a cottage adjoining his dad's farm in 2012 after five years of deepening health problems in Melbourne.

These began when he first used an iPhone. (“Bang! It was like someone had stuck an ice-pick in my head,” he says.) His symptoms intensified in line with the rollout of the 3G mobile network and smart meters. During Evans' last two years in Melbourne, he only left his room to buy food. His social life disintegrated and he couldn't attend business meetings. Years earlier, he'd met a woman with a sensitivity to chemicals who refused to get in a car. “I was like, ‘Pffft, loony’ ... I met a couple of other people in similar situations and I just wrote them off as nuts, bloody sensitive little namby-pambies. Then it started happening to me.” Evans drives up a mountain to show me the valley in which he dreams that dozens of White Zones homes could be built. He stops to read his meter. It's hundreds of times his safe limit. “Oh f...,” he says, reversing the van, away from the danger zone. Five minutes later, he touches his top of his head. “I've got pressure here.” Evans posted his idea for a community on the web. One line read: “I want this area declared a sanctuary where telcos cannot infringe.” The post went viral and emails poured in from around Australia and abroad. His dad, John, 76, resembles an older version of Bruce and also suffers from EHS. “I gave him an iPhone once and he was a write-off for two days,” says Bruce. “Yeah,” replies his father.

What does Dad think of having people with EHS here? “We've got all these old buildings here not being used for anything. We could have a set-up where people could come.” Evans has built a website called Radiation Refuge to match EHS

sufferers with suitable accommodation, which had 14 listings in August 2015. Evans has learned that some frequencies seriously harm some EHS people but not others. Several sufferers found it difficult to stay there, and a recent one having problems as soon as she entered the valley. His first visitor, Kaytie Wood, felt the cottage was “not a safe place”. Wood, a 58-year-old energy healer, had an immediate headache as soon as she arrived. Evans turned off various items, including a smart meter housed 70 metres away in a shed. That helped, but over the next day she became steadily worse: her headache grew, she became nauseous and could barely move. “It was like having an all-over-the-body migraine and the power was off there,” says Wood. “It must have been something else.” Evans convinced his sister – who runs a goat farm over the road – to turn off her electric fences, which helped. Wood camped outdoors the second night. “I think there was a lot of learning for Bruce,” she says. “He discovered we're sensitive to different things.”

The NBN tower at Moyhu was recently turned on. Evans can't measure any difference with his meters, but now feels like he has “termites in his head” when he goes for a run up the road. In July 2015, he discovered a mobile phone tower will be erected – he's not sure when – on a hill he can see from his office window. His dream of a White Zone seems over. He doesn't know how he will cope. He'll have to take to the road and is hoping someone will donate a caravan for him to live in. (Mark White: “Brain on fire: Living with electromagnetic hypersensitivity” Sydney Morning Herald, 4 September 2015)



ES-UK Leaflet

It's an excellent introduction to what ES is, with notes on its symptoms and causes, updated in September 2013.

Give it to your relatives and friends, or anyone interested.



Please send contributions for the ES-UK Newsletter to:
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1. To help people suffering from electro-sensitivity
2. To educate the public about electro-sensitivity and related areas

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