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WiFi in Libraries Blamed for Health Maladies in Paris

June 4, 2008, 2:59 pm

By Andrea Foster

To many people, the idea that wireless networks cause health problems seems wacky.

But four libraries in Paris have switched off their wireless connections after staff members complained that electromagnetic radiation from the networks was the source of their health problems, according to an article today in the newspaper, *The Connexion*.

The article states that the latest library to turn off the service is at Sainte-Geneviève University. The action was taken after a staff member threatened to take early retirement on health grounds. He said his symptoms included "headaches, balance problems, general weakness, stress and sight problems." But he also blamed electromagnetic radiation from cell phones for his maladies.

College employees in North America, too, have raised health concerns about wireless networks. A library director at Southwestern College, in Santa Fe, N.M., left her job last year, saying the wireless network played a role in her insomnia. And two years ago the president of Lakehead University, in Ontario, prohibited his institution from deploying a wireless network across campus citing concerns about students' health.

Despite these worries, the Centers for Disease Control says scientific research does not indicate "a significant association between cell phone use and health effects." Cell phones also emit electromagnetic radiation. But an article in Tuesday's *New York Times* points out that three prominent neurosurgeons do not hold cell phones to their ears in order to reduce their brains' exposure to radiation.—*Andrea L. Foster*

This entry was posted in Libraries. Bookmark the [permalink](#).

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The Chronicle of Higher Education 1255 Twenty-Third St, N.W. Washington, D.C. 20037

France National Library gives-up WiFi.

Paris 07 04 2008 - The management of the famous France National Library (BNF) just decides a moratorium on the Wi-Fi hot spot giving access to internet that were supposed to be installed by a private corporation on the entire area.

The given arguments being the research of the service quality, but also the precaution principle to be applied in order to avoid the exposure of its staff and of all visitors to of electromagnetic fields 2,45 GHz radiation risks.

This decision is justified by an argument that is supported by scientific literature which proves genotoxic effects from Wi-Fi waves, specially :

- An american research study from Professor S. Lee and al. at the Chicago University about genetic alterations in human cells exposed to radiofrequencies fields of 2, 45 GHz (Wi-Fi frequency). [Scientific Study : NCBI.Gov – PubMed]



France National Library (by figures) :
- BNF consists of 15 millions of varied works in books, manuscripts, prints, drawings, photos, and so on ... in a 4 towers buildings of 200 000 m² for a more than 1 million of persons/year frequent visitors with a staff of 2500 assistants and 254 M €/year budget.

-The scientific [Consortium BioInitiative](#) report with conclusions of an immediate revision of the actual Standards of exposure to electromagnetic radiations of the population,[in progress [International Petition](#)] as well as the Clermont-Ferrand Blaise Pascal University [research study](#).

Arnaud Beaufort, director general manager confirms the moratorium with this terms : « ...we wait the results of a current study and we give time to choose the most adapted technology. »

In a paper article from 'The Parisien' dated April 4, 2008, "The BNF gives up Wi-Fi in turn", the BNF management confirms this Wi-Fi cancellation, by adding that the reason are multiple : "the choice of wired connections were necessary because it's also the only that allows an very high data rate delivery transmission". For the mass researchers who go regularly in the BNF this option is important as it's expected there will be a connection for around 50 % of the seats by the end of 2008.



Room of France National Library in Paris.

The fact remains that BNF that is one of the France biggest Institution is as well a modern symbol in management, with a consequence that this decision impact is going well over this Paris prestigious place. It's a spectacular and symbolic put in question of the Wi-Fi connection installation as a precaution measure.

It's also a first great new (premiere) due to its scale that demonstrates that the wired connection alternative is a credible solution to Wi-Fi specially also appropriate for all establishments open to public and above all for National Education. This decision comes just after the moratorium of some libraries of Paris City where Wi-Fi is questioned following some staff personnel having uneasy feelings.

The movement seems to spread out inexorably as the Genevieve Library staff is also asking with a petition to disconnect the WI-Fi terminals and the sanitary and security committee of the Censier-Sorbonne University in Paris just decided to disconnect a Wi-Fi hot spot.

Associated Documents :

- Press Release of SUPAP- FSU : "[France National Library is giving up Wi-Fi](#)"
- By Amy Worthington. "[The Radiations Poisoning of America](#) "

Safe School Committee

[Home](#) [Wifi Health Effects](#) [Affected Schools](#) [Warning To School Board](#) [Parliament of Canada](#) [Health Canada](#)
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Every Child has a Right to a Healthy and Safe School



Health Hazards from WiFi

The World Health Organization warned in May of 2011 that microwave radiation from wireless devices such as WiFi and cell phones may cause cancer. It is considered a possible carcinogen on the same list as DDT, lead and engine exhaust. Governments and school boards can no longer say WiFi is safe.

It is important to note that both cell phones and WiFi came to the market without safety testing as a gift to telecom companies to help them expand quickly.

A novel group of symptoms has emerged in children attending schools in Simcoe County since the Board installed microwave WiFi transmitters.

Watch a Global News investigation that proves that WiFi is not "SAFE".

Watch what Children and Parents say at one Simcoe County School.

About WiFi: WiFi is a microwave transmitter that is used to connect to the internet without a cable. Wireless systems come with a long list of potential health risks. **Most schools in Ontario already have safe cable connections that are faster and more secure.** However, school boards are pushing to install microwave systems that end up largely unused and continuously expose students to strong microwave signals. It is cheaper and safer to simply add more cables where needed. Hard-wired systems are now available from computer stores that easily turn every electrical socket in a building into a internet port. This is another easy and safe solution for schools or homes.

Your Right To Know: WiFi is harmful to children. Microwave exposure is linked to infertility, erratic heart rates, learning impairment, behavioural changes, leukemia and cancer, especially in children.

The Committee has documented reports from children such as , "I can't hold my pencil sometimes," "I feel faint," "I keep having headaches," or "I feel sick to my stomach at school." A disturbing number of children have suffered sudden erratic heart rates or full cardiac arrest during their school day. Cancer takes several years to develop before it is detectable.

Please email about Changes in Your Child's Health: info@safeschool.ca

To take a Health Survey to find out if you Child is affected [Click here](#) (Privacy Protected)



Is Wi-Fi Safe for Children?

We fully support the use of computers and the promotion of technology in education, but we believe that it must be implemented in a SAFE manner. We should not expose our children to unnecessary health risks by Wi-Fi, while there are hardwired options available.

TUESDAY, FEBRUARY 1, 2011

Removal of Wi-Fi from Schools and Libraries in Canada and Other Countries

CANADA

2011 Aurora School in Ontario removed Wifi and replaced with hardwired connections to protect children's health.

2011 North Cariboo Christian School in Quesnel, B.C., removed Wi-fi and replaced with hardwired connections to protect children's health.

2011 Saanich School District on Victoria Island, BC has passed the use of technology policy at their board meeting, which included:

- There will be no Wi-Fi in elementary schools.
- In middle and secondary schools, managed Wi-Fi environments may be in adult workplaces including staff rooms and offices as necessary.
- Middle schools will have up to 25% coverage of student areas...

2007 Therold, Ontario closes down its citywide Wi-Fi pilot scheme.

2008 Lakehead University, Ontario banned Wi-Fi on campus.

2010 Meaford, Ontario St. Vincent Euphrasia elementary school: Parents voted to turn off Wi-Fi.

2010 Surrey, BC Roots and Wings Montessori Place removed Wi-Fi

Letter written by Kristin Cassie, the Principal :

<http://www.stayonthetruth.com/wifi-removed-at-surrey-bc-school-2010.php>

QUICK LINKS

- 1) VIDEOS: iPad iPhone Laptop Radiation Measurements
- 2) 2012 Expert Witness Testimonies to U.S. Court concerning Removal of Wi-Fi in Public Schools
- 3) Wireless computer network in class simulation

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WORLD

2005 Salzburg, Austria: Banned Wi-Fi in schools and nurseries.

http://bemri.org/publications/biological-effects-of-non-ionizing-radiation/wifi-and-decl/doc_view/136-advisory-letter-to-schools-re-decl-and-wifi.raw?tmpl=component

2006 Frankfurt, Germany: Banned Wi-Fi in public schools.

http://www.buergerwelle-schweiz.org/fileadmin/user_upload/buergerwelle-schweiz/Mobilfunk/Frankf_Rund_keinWLAN.pdf

2006 Prebandal Preparatory School, Chichester, England: Removed Wi-Fi from its campus

2006 Stowe School, Buckinghamshire, England: Removed Wi-Fi from campus.

2006 Ysgol Pantycelyn School, Carmarthenshire, Wales: Removed Wi-Fi from campus.

2007 Germany's Federal Government's national warning: Avoid exposure to radiation emanating from WiFi in cafés, schools, public "hot spots", and private homes. Recommended that people should keep their exposure to radiation from Wi-Fi "as low as possible". <http://dipbt.bundestag.de/dip21/btd/16/061/1606117.pdf>

2007 Bavaria, Germany: Recommended no Wi-Fi in schools.

2007 Voice (UK Teachers Union): Called for a ban on Wi-Fi in schools.

2008 Ballinderry Primary School, Ireland: Removed Wi-Fi

2008 The European Parliament voted almost unanimously (522 to 16) to urge Cabinet Ministers across Europe to introduce stricter regulations for microwave exposure.

2008-2010 National Library of France and four public libraries in France: Removed Wi-Fi .

2008 Sainte-Geneviève University, Paris: Removed Wi-Fi from library.

2008 USA Progressive Librarians Guild: Recommended no wireless technology in libraries & schools

2008 DfES UK: placed the responsibility on individual schools to decide whether to install Wi- Fi technology.

2009 Hérouville Saint-Clair, France: Banned Wi-Fi in public schools.

2010 Switzerland: Swiss Government and Swisscom, its largest telcom provider, offered fibre-optic wiring to schools for free for conversion from Wi-Fi to hardwiring networks.

2010 New Zealand: decision to install wifi rested with the individual school principal and school board.

2010 Israel's Position Paper on Electromagnetic Radiation in a School Environmet



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Studies on Biological and Cellular Damage by Micro...

ARCHIVED ARTICLES

- 中文网页: 电磁微波辐射与孩子健康
- Studies on Biological and Cellular Damage by Microwave & Radiofrequency Radiation
- Israel's Position Paper on Electromagnetic Radiation in a School Environment
- Dr. George Carlo speaks on Wi-Fi Radiation in Schools

Full Text English version: <http://www.disconnectbook.com/2011/03/07/position-paper-on-electromagnetic-radiation-in-a-school-environment/>

Original Text in Hebrew: <http://tinyurl.com/64plqj>

2010 Parliament of HESSE (Germany) Ruling:

"88% Wired Internet Access... To reduce the exposure to electrosmog but also to provide the computers with faster access to the school network, a wired connection should be given preference wherever possible. For this, however, school authorities need to lay the necessary groundwork. Classrooms must be fitted with many, easily accessible network ports. Desks must be arranged in such a way that cluttered network cables do not pose a risk to students."

http://www.magdahavas.com/wordpress/wp-content/uploads/2010/09/German_Swiss_Wifi_In-Schools_Warn.pdf



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- Mobile Learning and Health Risks Slideshow by University of Tampere, Finland
- The World Health Organization
- We are not alone! Victoria School District is re-evaluating the safety of Wi-Fi
- The current debate on Wi-Fi being installed in schools without Parents' consent
- Electromagnetic Induction by Wi-Fi causes Human Tissue to Polarize at Twice the Frequency
- At a Glance - The issue of Wi-Fi in School

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September 9, 2012

The Minister of Health in Israel Demands Immediate Halt of WIFI Deployment & Usage in Schools

Following is the English translation of the letter sent on August 19th, 2012 by Israel's Deputy Minister of Health MP & Rabi Yaakov Litzman (who is also Acting Minister of Health), to MP Gidon Saar, Minister of Education, calling for a halt to the deployment of wireless internet networks (WIFI routers, laptops, and tablets) in schools in Israel.

This letter is in response to the letter of our attorney, Michael Bach, which required an immediate ban of WIFI in schools, or we would petition to the Supreme Court for an Injunction.

It should be noted that the Ministry of Education already announced that schools should not use wireless internet networks unless using a wired network would create safety hazards.

The original letter in Hebrew follows.

Sincerely,



Dafna Tachover, Esq.

TRANSLATION:

THE LETTER OF THE ISRAELI DEPUTY HEALTH MINISTER (ACTING MINISTER)

Ministry of Health

The Deputy Minister of Health (Acting as the Head of the Ministry)

August 19th, 2012

To my Esteemed & Honorable,

MP Gidon Saar,

The Minister of Education.

Hello and greetings.

I received the copy of the letter sent by attorney Michael Bach, in which he specifies the possible health risks associated with the deployment of wireless internet in schools.

I deeply sympathize with attorney Michael Bach's letter. I had dealt with this subject in the past, and although I am not a professional, I do fear that there will come a day that we will all shed tears regarding the irreversible damage that we, in our own hands, cause the future generation.

The process of deployment of wireless internet has to be paused and should be reconsidered comprehensively.

With Respect,

Rabi Yaakov Litzman, Deputy Minister of Health.

נתקבל

23-08-2012

מיכאל בך ושות',
משרד נטוריכי דיין ונטוריון
רח' ויצמן 2 תל אביב, 64239
טל. 03-6932833



מנכ"ח הבריאות
Deputy Minister of Health

משרד
הבריאות
בתיים בריאים יותר

בס"ד

א' באלול, התשע"ב
19 אוגוסט 2012
מספרנו: 41299612
(במענה, ציין מספרנו)
תיק - שר (50) פניצ ישראל

לכבוד
ממובדי המעלה
ח"כ גדעון סעני
שר החינוך

שלום רב,

קיבלתי את העתק ממכתבו של עו"ד מיכאל בך, ובו הוא מפרט על הסיכומים
הבריאותיים שיש בקידום הטמעת האינטרנט האלחוטי בבתי הספר.
אני מזדהה עמוקות עם מכתבו. עסקתי בנושא זה רבות, למרות שאינני איש מקצוע,
אולם אני חושש שיבוא יום ונבכה כולנו על הנוקיס חבלתי הפיכים שאנו כמו ידנו
גרמנו לדור העתיד.
לפני כל התקדמות בנושא, יש להקפיד את המחלך מיידית ולהביאו לחשיבה
מחודשת ומקיפה.

במבד רב,

ח"כ יעקב ליצמן, ח"כ
שר הבריאות

Deputy Minister of Health
Ministry of Health
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THE INDEPENDENT

Germany warns citizens to avoid using Wi-Fi

Environment Ministry's verdict on the health risks from wireless technology puts the British government to shame.

By Geoffrey Lean

Sunday, 9 September 2007

People should avoid using Wi-Fi wherever possible because of the risks it may pose to health, the German government has said.

Its surprise ruling – the most damning made by any government on the fast-growing technology – will shake the industry and British ministers, and vindicates the questions that The Independent on Sunday has been raising over the past four months.

And Germany's official radiation protection body also advises its citizens to use landlines instead of mobile phones, and warns of "electrosmog" from a wide range of other everyday products, from baby monitors to electric blankets.

The German government's ruling – which contrasts sharply with the unquestioning promotion of the technology by British officials – was made in response to a series of questions by Green members of the Bundestag, Germany's parliament.

The Environment Ministry recommended that people should keep their exposure to radiation from Wi-Fi "as low as possible" by choosing "conventional wired connections". It added that it is "actively informing people about possibilities for reducing personal exposure".

Its actions will provide vital support for Sir William Stewart, Britain's official health protection watchdog, who has produced two reports calling for caution in using mobile phones and who has also called for a review of the use of Wi-Fi in schools. His warnings have so far been ignored by ministers and even played down by the Health Protection Agency, which he chairs.

By contrast the agency's German equivalent – the Federal Office for Radiation Protection – is leading the calls for caution.

Florian Emrich, for the office, says Wi-Fi should be avoided "because people receive exposures from many sources and because it is a new technology and all the research into its health effects has not yet been carried out".

Winnipeg Free Press - PRINT EDITION

LETTER OF THE DAY

Schools should be wired

Posted: 08/27/2012 1:00 AM | Comments: 0g | Last Modified: 08/28/2012 12:54 PM | Updates

KEITH MYERS / KANSAS CITY STAR [Enlarge Image](#)

Students receive laptop instruction in Kansas City, Mo., in 2011.

Wi-Fi is finding its way into Manitoba schools ([Dakota ramps up elearning](#) Aug. 16) so that students can more readily connect their laptops and other wireless devices to the Internet.

What parents and school administrators don't seem to realize is that there could be serious health consequences to overexposure to wireless radiation.

The World Health Organization has categorized wireless

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radiation (30 kHz-300 GHz) as a possible carcinogen, along with DDT and engine exhaust. The American Academy of Pediatrics recently asked the U.S. Federal Communications Commission to review its standards for cell phones and other wireless radiation devices.

Russia, Germany and Israel have recommended measures be taken to reduce children's exposure to wireless radiation in schools. Doctors in a Toronto hospital are training other doctors to recognize symptoms of electromagnetic hypersensitivity, which can include "poor sleep, fatigue, headache, nausea, dizziness, heart palpitations, memory

impairment and skin rashes" and are seeing two to three new patients a week.

Wired Internet has many advantages: it's faster, it can carry more data, it is more secure from hacking, and it doesn't irradiate kids.

MARG FRIESEN

Winnipeg

Find this article at:

http://www.winnipegfreepress.com/opinion/letters_to_the_editor/schools-should-be-wired-167519455.html

Check the box to include the list of links referenced in the article.

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The Microwave Factor

Microwave - and other forms of electromagnetic - radiation are major (but conveniently disregarded, ignored, and overlooked) factors in many modern unexplained disease states. Insomnia, anxiety, vision problems, swollen lymph, headaches, extreme thirst, night sweats, fatigue, memory and concentration problems, muscle pain, weakened immunity, allergies, heart problems, and intestinal disturbances are all symptoms found in a disease process originally described in the 1970s as Microwave Sickness.

Saturday, September 01, 2012

Your Best Friend is NOT Wi-Fi

Your Best Friend is NOT Wi-Fi

Posted on August 24, 2012 at 9:14 pm



PHOTOS (5)



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As with all fads, wireless is no different. Doctors and hospitals are even installing it in patient locations, apparently unaware of the health risks, just as some medical professionals once promoted smoking cigarettes. There is a rush to add Wi-Fi to all libraries, as well as schools, shopping areas, hotels, and medical facilities. It is the La Mesa-based Center for Electromog Prevention's position that placement of WIFI where the public is accommodated is a risk to the general public and a barrier for disabled people and those with medical conditions who must avoid RF radiation. RF radiation is a known toxin associated with exacerbation of medical conditions and as being the cause of some, according to the AAEM (American Academy of Environmental Medicine).

Follow the Money

The problem is that independent researchers have found that the type of radiation emitted by wireless technologies has not been proven safe, many people are reporting illness from it, with health and biological impacts supported by decades of independent investigations. The US government has not informed its citizens, unlike a growing number in Europe. Financial interests seem to be at the root of this "oversight". Much money is being pumped by corporate interests into

The Microwave Factor

Electromagnetic Radiation and its effects on health and the environment.

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About Me



Paul Doyon

While I have always been extremely health conscious and am presently in excellent health, I did become temporarily out-of-commission (i.e. I was really sick) in 2005 with a number of at the time unexplainable symptoms. I was quite puzzled at the time because I had been eating mainly organically grown food, drinking spring water, doing Yoga every morning, and going to the gym several times a week. In other words, I was doing everything one is supposed to do to stay healthy. I was not supposed to get sick. It took me six months before discovering or even imagining the main source of the problem - which was in fact "overexposure to electromagnetic" - especially microwave - radiation. I was living within 100 meters of three cell phone towers at the time and numerous WiFi signals had been bleeding into my apartment from my adjacent neighbors. I developed a host of symptoms, which are found in what has been misleadingly described as Chronic Fatigue Syndrome (CFS) - but much more accurately described as Radio Wave or Microwave Sickness. The fact that large numbers of people in the USA suddenly started getting sick in 1984 with these symptoms originally dubbed as "Yuppie Flu" (yuppies were the first to own cell phones and computers, by

advertising and public relations to convince people that wireless is their "best friend", with conflicted "scientists-for-hire", industry organizations, and government contributing to its suddenly rampant use.

Reasons to Avoid Wi-Fi in the Home, Schools, Businesses, Libraries, Medical Offices, and Hospitals

(Wi-Fi = Wireless Networking Technology)

1. Wi-Fi causes a pervasive, constant exposure to RF (radiofrequency) microwave radiation, implicated in hazardous health and biological effects. This may be immediate or cumulative, occurring over time, such as smoking is known for.
2. Increased RF radiation exposures = increased risk for the onset or aggravation of pre-existing health problems, including cancers, immune system disorders, neurological problems, including memory, learning, headaches, and cardiac abnormalities such as heart arrhythmias, according to many independent researchers and experts.[j]
3. Stronger signal = stronger radiation exposures, measured up to 800 times normal background levels
4. Low level signals also a risk, according to researchers, harm is not primarily dose-related, as some low-level signals may also interfere with cellular function.
5. Pregnant women, babies, and children in high risk groups for serious health impacts, according to many researchers.
- 6.

What is Wi-Fi?

Wi-Fi is the name of a popular wireless networking technology that uses radio waves to provide wireless high-speed Internet and network connections. (Webopedia)

How does Wi-Fi work? Wi-Fi works with no physical wired connection between sender and receiver by using radio frequency (RF) technology, a frequency within the electromagnetic spectrum associated with radio wave propagation. When an RF current is supplied to an antenna, an electromagnetic field is created that then is able to propagate through space.

(from WebOPedia, <http://www.webopedia.com/TERM/W/Wi-Fi.html>)

Wi-Fi Exposures in the Community

In La Mesa (or your town), you may be exposed to Wi-Fi in the public library (San Diego County Library system won an award for its wireless systems and scanners which have been measured from hundreds of times, up to 84,000 times, normal background levels), your child's school, your college or university, your doctor's office or your local hospital (like Grossmont Hospital), your workplace, restaurants (like Applebee's), bookstores (like Barnes and Noble), furniture stores (like Jerome's), and grocery stores (like Von's). Commercial businesses are rushing to install Wi-Fi thinking it will bring in customers and because they wish to use devices that may be more convenient to use wirelessly.

The businesses above are examples of those with Wi-Fi. We suspect that they have no idea of the risks to workers or the public. People often think of Wi-Fi as a "plus" - free Internet. Once informed, we hope that these businesses will remove Wi-Fi and provide Internet access on a safe, wired basis. The public, once informed, should think twice about exposure to toxic RF radiation.

Wi-Fi at Home

So-called "smart" utility meter technologies use Wi-Fi in both a wide area (vast indoor and outdoor) and home area network. There are two radios inside each smart meter, one, with a frequency very close to that of cell phones, is used to communicate with the other smart meters in the neighborhood, transmitting signals back and forth, using radiofrequency, on a virtually constant basis to maintain the mesh network. The system ultimately sends all the neighborhood data from one unfortunate customer in the neighborhood with a collector meter (that sends and receives far more than the average, and thus causing far greater exposures to RF radiation) to the nearest wireless infrastructure on a pole nearby, and then to the nearest cell tower. The second radio, called a Zigbee, in the case of SDG&E's Itron smart meters, is part of the home area network, communicating constantly with the wireless-enabled appliances, AC units, and furnaces in your home. The Zigbee radio uses a frequency very close to that of microwave ovens. Most new appliances come wireless enabled, even though this is not advertised - particularly if they are GE-brand, which has invested heavily in the "smart" appliance market. This second radio is set to be turned on in early 2013, according to SDG&E, and will add yet another layer of unwanted, dangerous RF radiation on a constant basis, inside your home, for those who have not "opted out" of smart meters back to the non-wireless analogs. (To learn more about opting out, click here).

Smart meter pulses have been measured as high as thousands of times normal background levels. The pulses occur every one to two seconds. Independent researchers and physicians are warning about these exposures. Both the microwave frequencies used and the pulsing is considered dangerous.

the way) the same year the first (1G) commercial cell phone network was set up across the country should start raising red flags for most people with even half a brain. (It was also the first year the bees started dying from Colony Collapse Disorder.) And people with an inkling of critical thinking skills and a bit of moral gumption (i.e. a Critical Consciousness [Freire], as opposed to the "Happy Consciousness" [Marcuse]) should seriously consider looking into and then trying to do something about this (what many intelligent and conscious people are now starting to regard as a) very serious problem and its elaborate coverup by the Military-Electronics-Industrial Complex. Hey, you are either part of the problem, or part of the solution. It's your choice! A problem will not go away by pretending that it does not exist. Isn't it about time people started to acknowledge the proverbial elephant in the room?

Concerned citizens can join EMF Refugee @

<http://health.groups.yahoo.com/group/emfrefugee/>

[View my complete profile](#)

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 - Sneezing the New WMD Weaponized Mucus Device
 - A PETITION TO BAN WIFI IN SCHOOLS WAS SUBMITTED TO...

Home Wi-Fi systems for wireless internet produce less RF radiation than commercial Wi-Fi, but are also risky, especially if the router is located close to occupied or sleeping areas.

Problem: Convenience and a desire for more money should not rule. Public and personal safety is more important.

Recommendations:

1. **Avoid Wi-Fi in public places and use wired cable or fiber optics for your home internet access.** Wired Internet access is also far more secure, as wireless is easily hacked.
2. **If a favorite business has Wi-Fi, complain and ask that it be removed and replaced with wired.**
3. **Call or write SDG&E (or your utility) today or fill out one of their forms to request an opt-out from both the gas and electric SDG&E "smart" meters.**

(If you can't opt-out in your area (outside of California), contact your state legislators and PUC to demand an opt-out option. If you live in an apartment or other multi-family dwelling unit with banks of smart meters that may impact your health, consider organizing everyone to opt-out, and write the CPUC (California Public Utility Commission) Administrative Law Judge, Amy Yip-Kikugawa (ayk@cpuc.ca.gov), who is deciding whether entire communities may be allowed to opt-out, to request that she approve this option, explaining your situation.)

Smart Meter Opt-out Forms & Fliers to use and share

4. **Call your water company to see if their water meters are "smart" (wireless).** Demand an opt-out or for the water district to drop smart meters (or any plans for them), which helps fill the neighborhood with Wi-Fi-derived RF radiation. Helix Water District quickly dropped their expensive, non-beneficial, risky smart meter pilot program in the Mt. Helix area, and plans to extend it beyond, for all their customers, when publicly challenged on the topic in Letters to the Editor and at a Helix Water District public meeting by this author, in 2011.

Schools and Wi-Fi:

Going back to school should not include being exposed to high levels of harmful RF (radiofrequency) microwave radiation all day that can contribute to health impacts, attention, hyperactivity, behavior, and learning problems - even seizures may occur. Scientists have shown that children are more susceptible to health and brain impacts of RF radiation, so why should they be forced to be exposed to it while getting a public (or private) education? Low levels are also not safe, as independent scientists have linked low levels of radiofrequency radiation, particularly in the microwave and EMF ranges, with biological and health impacts.

Recommendation: Immediately, find out if your child's school has Wi-Fi. If so, complain, ask the school to wire its computers, and find another school without Wi-Fi for your child to attend. Avoid schools with Wi-Fi installed like you'd avoid the plague.

Dr. Magda Havas, Canadian wireless expert, recommends that schools not install Wi-Fi and replace Wi-Fi by returning to wired connections - ethernet or fiber optic. (Magda Havas is an Associate Professor of Environmental & Resource Studies and researcher on the biological effects of environmental contaminants. Dr. Havas received her Ph.D. from the University of Toronto, completed Post-Doctoral research at Cornell University, and taught at the University of Toronto before going to Trent University in Peterborough, Canada.)

"May 2012. At the request of some teachers I have updated the open letter I wrote in May 2009 about Wi-Fi in the school environment. Much has happened during the past 3 years making it even more urgent that a moratorium be placed on the deployment of Wi-Fi in schools; and that schools that currently have Wi-Fi consider reducing the microwave exposure as much as possible for part or the entire day and for part or the entire school by returning to the use of wired connections (ethernet or fiber optics) for internet access."

"Click here for the updated open letter."

Wi-Fi and Health

Wi-Fi is dangerous for both the general public and workers forced into exposures all day long. In the USA, the American Academy of Environmental Medicine (AAEM) (www.aeonline.org), a highly respected environmental physicians' association, has issued three dire warnings about the impact on health of electromagnetic radiation and smart meters, and one about Wi-Fi in schools, in 2012. In July, AAEM issued a list of Recommendations for patients with a wide variety of medical problems to avoid RF radiation, as exposures may cause more symptoms or even be the root cause of illnesses.

The text of the AAEM's Recommendations written for use by all patients' physicians, nationwide, is as follows:

Big Chem, Big Harm?
 Cusheon Lake Smart Meter install on Salt Spring Is...
 Neurological Disorder in US Kids on the Rise
 Could mobiles affect some more than others?
 Del. Glass: "There is Evidence that Suggests these...
 Woman blames smart meter for house fire
 "Smart Meter" Hearing in Texas Draws Crowds Seekin...
 Smart Meter Commercial
 Cell Tower Stomp, musical jamboree in Port Franks ...
 Stop Wi-Fi in schools, deputy health minister impl...
 Gearing up for a new school year in Braham
 Frame mobile tower bylaws within 10 days: High Cou...
 Huntsville City Schools equip buses with WiFi
 México regulará antenas para evitar daños por radi...
 RNCNIRP to issue report on Russian RF research
 Prof Yury Grigoriev calls for order
 Update Regarding WiFi in Schools in Israel
 Ny debattartikel / A new commentary
 WiFi Goes to High Court in Israel
 Mayo Clinic Cardiologists Dramatically Cut Patient...
 Victory! No Cell Towers on School Grounds!
 AT&T cell towers may be at center of Oakland Polic...
 Oakland police radio culprit: cell towers
 California Coastal Commission Votes Unanimously to...
 Training Project on Environmental Sensitivities
 Mount Alexander Council requests smart meters heal...
 Is human saliva an indicator of the adverse health...
 Mobile Towers: Government decides to cut radiation...
 Denise Barton of California Files \$1.7 Billion Cla...
 Tony Scott Brain Cancer Report Appears in Doubt
 Mount Alexander Council requests smart meters heal...
 4G and Darth Meter
 Natural Living Expo. Sturbridge Host Hotel, Sturbr...
 Electromagnetic effects evident in the short term

American Academy of Environmental Medicine Recommendations Regarding Electromagnetic and Radiofrequency Exposure (7/12/12)

Physicians of the American Academy of Environmental Medicine recognize that patients are being adversely impacted by electromagnetic frequency (EMF) and radiofrequency (RF) fields and are becoming more electromagnetically sensitive.

The AAEM recommends that physicians consider patients' total electromagnetic exposure in their diagnosis and treatment, as well as recognition that electromagnetic and radiofrequency field exposure may be an underlying cause of a patient's disease process.

Based on double-blinded, placebo controlled research in humans, 1 medical conditions and disabilities that would more than likely benefit from avoiding electromagnetic and radiofrequency exposure include, but are not limited to:

- Neurological conditions such as paresthesias, somnolence, cephalgia, dizziness, unconsciousness, depression
- Musculoskeletal effects including pain, muscle tightness, spasm, fibrillation
- Heart disease and vascular effects including arrhythmia, tachycardia, flushing, edema
- Pulmonary conditions including chest tightness, dyspnea, decreased pulmonary function
- Gastrointestinal conditions including nausea, belching
- Ocular (burning)
- Oral (pressure in ears, tooth pain)
- Dermal (itching, burning, pain)
- Autonomic nervous system dysfunction (dysautonomia).

Based on numerous studies showing harmful biological effects from EMF and RF exposure, medical conditions and disabilities that would more than likely benefit from avoiding exposure include, but are not limited to:

- Neurodegenerative diseases (Parkinson's Disease, Alzheimer's Disease, and Amyotrophic Lateral Sclerosis. 2-6
- Neurological conditions (Headaches, depression, sleep disruption, fatigue, dizziness, tremors, autonomic nervous system dysfunction, decreased memory, attention deficit disorder, anxiety, visual disruption). 7-10
- Fetal abnormalities and pregnancy. 11,12
- Genetic defects and cancer. 2,3,13-19
- Liver disease and genitourinary disease. 12,20

Because Smart Meters produce Radiofrequency emissions, it is recommended that patients with the above conditions and disabilities be accommodated to protect their health. The AAEM recommends: that no Smart Meters be on these patients' homes, that Smart Meters be removed within a reasonable distance of patients' homes depending on the patients' perception and/or symptoms, and that no collection meters be placed near patients' homes depending on patients' perception and/or symptoms. (AAEM)

AAEM has also taken a position against Wi-Fi in schools, as follows:

The American Academy of Environmental Medicine Statement on Wi-Fi in Schools (AAEM, June 9, 2012)

"Adverse health effects, such as learning disabilities, altered immune responses, headaches, etc. from wireless radio frequency fields do exist and are well documented in the scientific literature. Safer technology, such as using hard-wiring, must be seriously considered in schools for the safety of those susceptible individuals who may be affected by this phenomenon. "

Europe Has Been Warned by WHO and the Parliament of the European Union

In Europe, awareness of these dangers has reached governmental authorities far more than in the USA, to date. On May 31, 2011, the World Health Organization (WHO), a conservative health authority, announced that it was placing RF radiation on its list of 2B Carcinogens. Insiders have revealed that WHO could have placed it on a higher risk level (probable) based on the evidence. Immediately following that decision, the Parliament of the European Union issued a warning to all its member governments, to request that they reduce exposure of their citizens to RF radiation. Following that warning, France has imposed a moratorium on Wi-Fi in its public libraries after workers reported illness following its installation; the Bavarian Parliament of Germany recommends not installing Wi-Fi in school for health reasons, and the German government's health protection agency recommends the public reduce their exposure to high frequency radiation to minimize health risks. It also recommends:

From Leah Morton, MD, Family Practitioner with OB/G...

Austrian Medical Association Guidelines

The Quiet Radiation Plague, by Aviv Lavie

Conrad Biologic on smart meters (recommended!)

Sue Pastor and Jim Powell: Smart meters a watershe...

Tower's radiation levels worry Campbell River city...

Woman Wants \$1.7 Billion for Alleged Smart Meter A...

TSA's Millimeter Wave Scanners Radiate Cells With ...

Leixlip questions radiation limit for children

Fire Concerns Lead PECO To Halt Smart Meter Instal...

San Francisco's precautionary advice on cell phone...

The brave new global world of smart appliances and...

The biological impacts of the Fukushima nuclear ac...

New mobile radiation norms from Sept 1

Sierra Club comes under fire for its smart meter a...

Warning: Your mobile gadgets can be hazardous to y...

Melbourne Seminar: The Future Roles of Smart Meter...

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- ▶ 08/05 - 08/12 (28)
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- ▶ 06/17 - 06/24 (46)
- ▶ 06/10 - 06/17 (37)
- ▶ 06/03 - 06/10 (19)
- ▶ 05/27 - 06/03 (40)
- ▶ 05/20 - 05/27 (33)
- ▶ 05/13 - 05/20 (24)
- ▶ 05/06 - 05/13 (46)
- ▶ 04/29 - 05/06 (60)
- ▶ 04/22 - 04/29 (29)
- ▶ 04/15 - 04/22 (35)
- ▶ 04/08 - 04/15 (9)
- ▶ 04/01 - 04/08 (13)
- ▶ 03/25 - 04/01 (24)
- ▶ 03/18 - 03/25 (10)

- use of cabled connections rather than Wi-Fi and bluetooth
- site Wi-Fi access points away from people, including at work

The Education Professionals Union (Voice), of the United Kingdom (formerly the Professional Association of Teachers), is calling for a moratorium on new Wi-Fi networks in schools and the suspension of existing Wi-Fi. Voice is calling for a full investigation into Wi-Fi networks in schools in the UK.

"We continue to be concerned about the possible effects of Wi-Fi. Particularly on children whose brains and bodies are still developing".

Speaking about the announcement of an investigation into Wi-Fi by the Health Protection Agency (measuring emissions from computers in schools to check whether they are within ICNIRP guidelines), Voice General Secretary, Philip Parkin stated:

"Whilst we welcome this investigation I do not feel that it goes far enough. It seems to be concentrating on what should be known already rather than on what is not known. It seems to me that the HPA (Health Protection Agency, United Kingdom):

- has pre-judged outcomes before they have done the work;
- seems to only be considering the thermal effect of EMR (electromagnetic radiation) and not the potential long-term health risks associated with the non-thermal effects;
- is assessing against the totally inadequate ICNIRPS guidelines which only relate to the thermal effects of EMR;
- does not appear to be doing any health-related investigations amongst children; and
- appears to be concentrating on measuring radiation levels which are already known, or should have been before the technology was allowed to be used in schools." (WiredChild.org)

ICEMS on Electromagnetic Fields and Health

The International Commission for Electromagnetic Safety (ICEMS) is made up of scientists, medical doctors and engineers from around the world. In their Benevento Resolution (2006) and Venice Resolution (June 2008), ICEMS stated its concern for the effects of exposure from electromagnetic fields on the public health. They state:

"We take exception to the claim of the wireless communication industry that there is no credible scientific evidence to conclude there is a risk. Recent epidemiological evidence is stronger than before, which is a further reason to justify precautions be taken to lower exposure standards..."

"We strongly advise limited use of cell phones, and other similar devices, by young children and teenagers, and we call upon governments to apply the Precautionary Principle as an interim measure while more biologically relevant standards are developed to protect against, not only the absorption of electromagnetic energy by the head, but also adverse effects of the signals on biochemistry, physiology and electrical biorhythms."

Request the Removal of Wi-Fi Based on Discrimination Laws

Recommendation:

1. Consider requesting removal, in writing, of Wi-Fi from places of public accommodation and government buildings such as schools using the Americans With Disabilities Act and Section 504 of the Rehabilitation Act of 1973, as well as Section 453 of the Public Utilities Code and additional state and federal discrimination laws that protect individuals with disabilities and/or medical conditions. Click [here](#) and [here](#) to learn more.
2. On a temporary basis, you may request that Wi-Fi be turned off while you are in the building, such as for a doctor's appointment. The author has been graciously accommodated in this manner by a physician's office, recently.

For more info on Wi-Fi:

www.electrosmogprevention.org
www.citizensforsafetechnology.org
www.centerforsafewireless.org
www.emfeffectsonkids.com
www.wiredchild.org
www.safeschool.ca

For independent research and position statements, on electromagnetic radiation exposures and health that support the above article go to www.smartmeterdangers.org and www.electrosmogprevention.org.

Susan Brinchman

Director, Center for Electrosmog Prevention, La Mesa, CA

www.electrosmogprevention.org

http://lamesa.patch.com/blog_posts/your-best-friend-is-not-wi-fi

Posted by Paul Doyon at Saturday, September 01, 2012



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- ▶ 2007 (153)
- ▶ 2006 (24)
- ▶ 2005 (10)

New letter to British Columbia's Public Health Officer

who speaks out about the "safety" of Wi-Fi in schools when the World Health Organization has classified it a 2b "possible human" carcinogen. Wi-Fi remains a leading cause of EHS in children . . . guess who else has EHS? Many of our firefighters, the strongest of the strong. How long will the medical "professionals" take money from telecom to say "Nothing is wrong!" when thousands of non-industry studies say the opposite? This letter applies to ALL forms of wireless in ALL countries. May we learn the lesson before it is too late . . .

August 27, 2012

Dear Dr. Kendall:

I sent an email to you on Friday, but failed to include other members of your Canadian leadership, all of whom must share our concerns for the health and safety of children not only in British Columbia, but everywhere. I made you aware of some very significant developments in Israel. Deputy Health Minister Yaakov Litzman has implored the Education Minister of Israel, Gideon Sa'ar, to immediately suspend installation of wireless internet in schools due to the well documented hazards of RF - EMF. It is my strong belief that Canada should be doing the same, as should my own country, the United States, and all countries around the world.

In May of 2011, the IARC committee of the World Health Organization declared, 29 to 1, after careful perusal of the science, that all types of radiation within the radiofrequency part of the electromagnetic spectrum should be declared a 2b "possible human" carcinogen. Wi-Fi is included in that classification. Children are much more vulnerable than adults. You are exposing them to cumulative radiation by having Wi-Fi in the schools. You know you can hardwire their computers and it will be infinitely safer. Since my email to you of August 24th, it has been brought to my attention that you, interestingly, has publicly discounted the significance of the IARC classification of everything on the spectrum of RF - EMF as a 2b "possible human" carcinogen. Perhaps I received incorrect information? It is hard for me to believe you would discount IARC's decision and redefine it in your own terms, but just in case you truly made such a statement, I will address that before the close of my letter.

Cancer is a concern, of course, but even greater is the neurological concern, because the brain is the first major organ of the body to be adversely affected by RF - EMF, and the long-term and even short-term effects are potentially devastating. Cognition can be impaired, reaction-time slowed, and impulse control delayed.

I organized a brain study of firefighters, men who are considered to be the strongest of the strong among us, in California in 2004. They had been exposed to a cell tower beaming across their working/sleeping quarters for 5+ years. The study was conducted by Gunnar Heuser, MD, PhD, an expert in the field of neurotoxicology. Each of the men who had their brains scanned showed a hyper-excitability of the neurons, or brain cells. This is considered to be a precursor to early cell death and potentially early onset Parkinson's, ALS, and Alzheimer's. Now, 8 years later, two of the men have had psychotic breaks with reality and all are suffering from memory impairment. All the men tested in 2004 had tremors, and some were still in their 20's.

Let me tell you more about some of the symptoms these brave firefighters -- again, the strongest of the strong among us and perhaps the least likely to admit pain and discomfort or disability -- have complained of since the cell towers were activated:

- mental confusion and difficulty concentrating
- lack of focus and motivation
- memory loss
- mood swings including depression, anger
- sleep disruption and lack of alertness
- chronic headaches
- vertigo
- ringing in the ears

These are the same symptoms many children and adults complain of in Wi-Fi environments. Both the firefighters adversely effected by the RFR from the cell towers and those children and adults adversely effected by RFR from Wi-Fi are experiencing classic symptoms of EHS or electro-hypersensitivity. They are all sensitive or sickened -- the latter term perhaps being more appropriate -- by radiofrequency (microwave) radiation. Let me be extremely clear to you and to all: EHS is a collection of neurological symptoms, originating in the brain, and many are measurable using objective testing. Immunological symptoms may be present as well, as the central nervous system and immune system overlap significantly.

In an attempt to protect the firefighters from the cell towers targeted for their stations, I wrote the original version of Resolution 15 which was passed by an 80% margin at the International Association of Firefighters convention in Boston in 2004. I was proud to be joined by four others as co-authors, including two Canadians, Assistant Fire Chief Joe Foster and Dr. Magda Havas of Trent University, and two Americans, Janet Newton, Director of the EMR Policy Institute and Lt. Ron Cronin of the Boston Fire Department. Resolution 15 calls for further study and a moratorium on placement of cell towers on firestations in the US & Canada (attached), yet you radiate children in schools?

These invisible waves are microwaves, Dr. Kendall. "Radio waves" is a lovely euphemism. Please do not continue to expose young children to microwave radiation throughout their formative years.

What you are doing by ignoring the IARC/WHO warning is putting young, developing children at great risk. If you choose to look away at this time when there are literally thousands of non-industry funded studies showing the dangers of RFR, you will -- metaphorically speaking -- have blood on your hands.

As to the IARC warning, it is indeed a serious one. Also in the 2b "possible human" carcinogen classification are DDT, diesel exhaust, and Chlordane among hundreds of other neurotoxins and possibly carcinogenic-to-human toxins. Yet you allow Wi-Fi in your schools and think nothing of it? Would you allow DDT or Chlordane to be misted throughout the classrooms all day, 5 days a week, or diesel exhaust to be ventilated into the classrooms from the garages that house the school buses?

Perhaps you think the IARC warning only applies to cell phones. If you think this, you are not alone. That is why Dr. Robert A Baan, Head of the IARC Monographs, offered the following letter for clarification. Here is the text of his reply, which clearly includes Wi-Fi in the 2b classification [The bolding and underlining of Wi-Fi is mine]:

From Dr. Baan:

The IARC Working Group classified "Radiofrequency Electromagnetic Fields" (RF-EMF) as possibly carcinogenic to humans (Group 2B). The information that formed the main basis for this evaluation was found in epidemiological studies on cell-phone use, where a slightly increased risk for glioma (a malignant form of brain cancer) and acoustic neuroma (a non-cancerous type) was reported among heavy users.

There were some indications of increased cancer among radar-maintenance workers (occupational exposure), but no reliable data from studies among, e.g., people living close to base-station antennas, radio/TV towers, etc (environmental exposure).

Although the key information came from mobile telephone use, the Working Group considered that the three types of exposure entail basically the same type of radiation, and decided to make an overall evaluation on RF-EMF, covering the whole radiofrequency region of the electromagnetic spectrum.

In support of this, information from studies with experimental animals showed that effects on cancer incidence and cancer latency were seen with exposures to different frequencies within the RF region.

So the classification 2B, possibly carcinogenic, holds for all types of radiation within the radiofrequency part of the electromagnetic spectrum, including the radiation emitted by base-station antennas, radio/TV towers, radar, Wi-Fi, smart meters, etc.

An important point is the radiation level. The exposure from cellular phones (personal exposure) is substantially higher and much more focused (usually on the brain) than exposures from radio/tv towers, antennas, or Wi-Fi.

I hope this is useful.

Thank you for your interest in our work.

Sincerely yours,

Robert A Baan PhD
The IARC Monographs
IARC, Lyon, FRANCE

At your request, Dr. Kendall, I would be more than happy to send relevant medical studies. You may speak more loudly through your silence if you choose not to learn more about this intensely germane issue.

I would like to ask, for the record, if you receive any campaign contributions, contributions toward governmental or private programs, or gifts -- monetary or otherwise -- from the telecommunications industry or any entity that has any connection to them?

Thank you for your time and careful consideration.

Kind Regards,

Susan Foster

SUSAN FOSTER, MSW
Advisor, Radiation Research Trust, UK
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Rancho Santa Fe, California 92091
susan.foster04@gmail.com

cc: Michael de Jong, Minister of Health
George Abbott, Minister of Education
Premier Christy Clark
Leader Adrian Dix

University of Albany, New York– August 31 / **Serious Public Health Concerns Raised Over Exposure to Electromagnetic Fields (EMF) from Power Lines and Cell Phones**

An international working group of scientists, researchers and public health policy professionals (The BioInitiative Working Group) has released its report on electromagnetic fields (EMF) and health. It raises serious concern about the safety of existing public limits that regulate how much EMF is allowable from power lines, cell phones, and many other sources of EMF exposure in daily life.

Electromagnetic radiation from such sources as electric power lines, interior wiring and grounding of buildings and appliances are linked to increased risks for childhood leukemia and may set the stage for adult cancers later in life. A report from the BioInitiative Working Group (www.bioinitiative.org) released on Friday, August 31st documents the scientific evidence that power line EMF exposure is responsible for hundreds of new cases of childhood leukemia every year in the United States and around the world.

The report provides detailed scientific information on health impacts when people are exposed to electromagnetic radiation hundreds or even thousands of times below limits currently established by the Federal Communications Commission (US FCC) and International Commission for Non-Ionizing Radiation Protection in Europe (ICNIRP). The authors reviewed more than 2000 scientific studies and reviews, and concluded that the existing public safety limits are inadequate to protect public health. From a public health policy standpoint, new public safety limits, and limits on further deployment of risky technologies are warranted based on the total weigh of evidence.

The report documents scientific evidence raising worries about childhood leukemia (from power lines and other electrical exposures), brain tumors and acoustic neuromas (from cell and cordless phones) and Alzheimer's disease. There is evidence that EMF is a risk factor for both childhood and adult cancers.

Public health expert and co-editor of the Report Dr. David Carpenter, Director, Institute for Health and the Environment at the University of Albany, New York says *"this report stands as a wake-up call that long-term exposure to some kinds of EMF may cause serious health effects. Good public health planning is needed now to prevent cancers and neurological diseases linked to exposure to power lines and other sources of EMF. We need to educate people and our decision-makers that "business as usual" is unacceptable."*

Health questions about power line EMFs were initially raised by Nancy Wertheimer, a Colorado public health expert and Ed Leeper, an electrical engineer in 1979. Wertheimer noticed that children were twice or three times as

likely to have leukemia tended to live in homes in the Denver, CO area close to power lines and transformers. Now, there are dozens of studies confirming the link, but public health response has been slow in coming, and new standards to protect the public are necessary.

Brain tumor specialist Dr. Lennart Hardell, MD, PhD and Professor at University Hospital in Orebro, Sweden is a member of the BioInitiative Working Group. His work on cell phones, cordless phones and brain tumors is widely recognized to be pivotal in the debate about the safety of wireless radiofrequency and microwave radiation. *"The evidence for risks from prolonged cell phone and cordless phone use is quite strong when you look at people who have used these devices for 10 years or longer, and when they are used mainly on one side of the head.*

Brain tumors normally take a long time to develop, on the order of 15 to 20 years. Use of a cell or cordless phone is linked to brain tumors and acoustic neuromas (tumor of the auditory nerve in the brain) and are showing up after only 10 years (a shorter time period than for most other known carcinogens). *"This indicates we need research on more long-term users to understand the full risks"* says Dr. Hardell.

Dr. Hardell's work has been confirmed in other studies on long-term users. A summary estimate of all studies on brain tumors shows overall a 20% increased risk of brain tumor (malignant glioma) with ten years of use. But the risk increases to 200% (a doubling of risk) for tumors on the same side of the brain as mainly used during cell phone calls. *"Recent studies that do not report increased risk of brain tumors and acoustic neuromas have not looked at heavy users, use over ten years or longer, and do not look at the part of the brain which would reasonably have exposure to produce a tumor."*

Wireless technologies that rely on microwave radiation to send emails and voice communication are thousands of times stronger than levels reported to cause some health impacts. Prolonged exposure to radiofrequency and microwave radiation from cell phones, cordless phones, cell towers, WI-FI and other wireless technologies have linked to physical symptoms including headache, fatigue, sleeplessness, dizziness, changes in brainwave activity, and impairment of concentration and memory. Scientists report that these effects can occur with even very small levels of exposure, if it occurs on a daily basis. Children in particular are vulnerable to harm from environmental exposures of all kinds.

Co-editor of the report, Cindy Sage of Sage Associates says *"public health and EMF policy experts have now given their opinion of the weight of evidence. The existing FCC and international limits for public and occupational exposure to electromagnetic fields and radiofrequency radiation are not protective of public health. New biologically-based public and occupational exposure are*

recommended to address bioeffects and potential adverse health effects of chronic exposure. These effects are now widely reported to occur at exposure levels significantly below most current national and international limits.”

Biologically-based exposure standards are needed to prevent disruption of normal body processes. Effects are reported for DNA damage (genotoxicity that is directly linked to integrity of the human genome), cellular communication, cellular metabolism and repair, cancer surveillance within the body; and for protection against cancer and neurological diseases. Also reported are neurological effects including changes in brainwave activity during cell phone calls, impairment of memory, attention and cognitive function; sleep disorders, cardiac effects; and changes in immune function (allergic and inflammatory responses).

Sage says *“the Working Group recommends a biologically-based exposure limit that is protective against extremely-low frequency (power line) and radiofrequency fields which, with chronic exposure, can reasonably be presumed to result in significant impacts to health and well-being”.*

Contributing author Dr. Martin Blank, Columbia University professor and researcher in bioelectromagnetics says *“cells in the body react to EMFs as potentially harmful, just like to other environmental toxins, including heavy metals and toxic chemicals. The DNA in living cells recognizes electromagnetic fields at very low levels of exposure; and produces a biochemical stress response. The scientific evidence tells us that our safety standards are inadequate, and that we must protect ourselves from exposure to EMF due to powerlines, cell phones and the like.”* He wrote the section on stress proteins for the BioInitiative Report.

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