

**From:** Jerry Flynn [jerryjgf@shaw.ca]  
**Sent:** Wednesday, January 23, 2013 3:48 PM  
**To:** Commission Secretary BCUC:EX  
**Cc:** Letnick.MLA, Norm LASS:EX; ron@cannan.ca; ron.cannan@parl.gc.ca; 'shonna hayes'; 'Alex Atamanenko'; 'Alex Atamanenko'; 'BC Hydro Regulatory Group'; 'cliff paluck'; 'curtis bennett'; 'David Aaron'; 'Dennis Swanson'; 'e kung'; 'Fred Weislaw'; 'Gordon Fulton'; 'Guy Leroux'; 'k.e. miles'; 'leroux'; 'Ludmila B. Herbst'; 'n gabana (?)'; 'r.h. hobbs'; 'T. Braithwaite'; 'T. Hackney'; 'unknown'; 'unknown'; 'unknown'; 'unknown'; 'unknown'; 'unknown'; 'unknown'; 'w. j. andrews'; 'Zero Waste'  
**Subject:** Electromagnetic Radiation, Wireless smart meters and meshed-grid networks - A Crime Against Humanity!  
**Attachments:** WSM-EMR ppp BCUC 01-23-2013.pptx

Thursday, January 23, 2013

Attention: Erica M. Hamilton, Commission Secretary

RE: FortisBC Inc Advance Metering Infrastructure CPCN

Subject: Wireless Smart Meters and Meshed-grid Networks - A Crime Against Humanity!

Gentlemen,

I am sorry that you saw fit to deny me an opportunity to present my PowerPoint presentation on this electromagnetic radiation (EMR), smart meter, meshed-grid subject. However, because I know it is of such grave importance to our society today, I am obliged to attach my presentation here in the earnest hope you will take the time to view it. I assure you, it is based solely on evidence, the sources of which can be seen on each slide. In viewing it, please remember: pulsed EMR is pulsed EMR, whether it comes from a Smart Meter, a cell phone tower or a Wi-Fi router. Insofar as the human body is concerned, it is all a Class 2B ("Possible") carcinogen.

Any sane thinking person - free from industry influence - who has researched this extremely obscure and profound subject: EMR, will understand what I am saying. With even a fleeting understanding of EMR's genesis and history, and an awareness of the monumental assortment of wireless EMR-emitting devices already proliferating and poisoning Earth's environment with Class 2B ("Possible") carcinogenic toxins in an ever-thickening "electro-smog," one knows that leading non-industry funded scientists and medical health practitioners around the world are urgently warning all governments - everywhere - of the unprecedented perils mankind and all life forms are facing due to the astonishing levels of ambient EMR now blanketing our communities. These same scientists are also urging governments everywhere to immediately exercise the *Precautionary Principle* and to drastically reduce their *Exposure Limits* in order to protect the public and all life forms. For example, Austria's *Exposure Limit* for 1800 MHz is *10,000 times lower (SAFER) than is Canada's!* Contrary to what Health Canada, our provincial Medical Health Officers and all the electric utilities claim, Canada's Exposure Limits **DO NOT** protect the public from the *long-term, low-level non-thermal effects* of EMR, which all of today's wireless consumer products emit. In this regard, Canada's *Exposure Limits* are amongst the poorest (most dangerous) in the entire world!

Informed people know that Fortis' proposed wireless smart meters and meshed-grid technology has **never** been tested and proven to be **harmless to human health and to the health of other life forms anywhere on Earth!** For that matter, not one of today's portable wireless microwave radio

devices has been proven to be safe to one's health! Health Canada has never put the onus on telecom and wireless industries or electric utilities to prove their products are safe (i.e. will pose no threat to the health of humans and other life forms), and this applies to Wi-Fi routers, cell phones, cell phone towers, cordless phones, smart phones, iPhones, laptop computers, tablets, baby monitors, Bluetooth, home security systems, garage door openers, Smart Meters, etc.! It is also known that no scientist on Earth yet knows *what level of EMR - if any - is safe*, especially for embryos, pregnant women, children, the sick and the elderly. In fact, some scientists have said: there is NO such thing as a safe level!

Canada's current Safety Code 6, which Health Canada simply adopted from the telecom industry, like the telecom and wireless industries, considers only the thermal effects of EMR. It needs to be pointed out that Safety Code 6 was established initially to provide a modicum of safety to enable a 6' tall male industrial electrician weighing over 200 lbs, with an 11 lb. head to work on or near high voltage installations for - get this - an Exposure Time of just **six minutes**! Yet in the intervening years, Health Canada has somehow managed to allow these constraints to be relaxed such that they now apply to all members of the general public - *24/7/365 in perpetuity*! That means they apply across the board, equally: to huge men, tiny women, pregnant women, embryos, children, the sick and the elderly! This amounts to an involuntary "experiment" being perpetrated on us, the public - *without our knowledge or our consent*! And that, in itself, is in direct contravention of the Nuremberg Code ("Google that name")!

Adding insult to injury, Fortis' proposed wireless Smart' Meter-based meshed-grid networks, if approved, will harm us, our families and our pets substantially more than any other single wireless device currently on the market, because of the incalculable amounts of highly toxic microwave radiation this unproven technology will generate. A 'meshed-grid' network consists of 500 to 5,000 homes and, once one understands how meshed-grids are designed to work, one can easily imagine horrific amounts of additional toxic EMR being added to the already dense electro-smog currently blanketing our communities! Understandably, neither Fortis nor any other electric utility wants us to know that every Smart Meter contains two, separate microwave transmitter/receiver circuits: a LAN (local area network) and a "Zigbee." Nor do they want us to know that they envisage every home eventually having 15-or-so "smart" appliances, each appliance having its own built-in wireless pulsing microwave transmitter that will be controlled by the Smart Meter's ZigBee transmitter and receiver radio circuit. Considering just the above, alone, this means that every home will have to endure up to 17-or-more pulsing microwave transmitter and receiver circuits; two in the Smart Meter itself and 15-or-so inside the home attached to its 'smart' appliances. And 16 of these 17 transmitters will emit sharp millisecond-long bursts of pulsed microwave radiation - on exactly the same frequency used by *microwave ovens*! Realizing that a LAN transmitter radiates for up to 3 Km, means that *each and every home will radiate - and be radiated by - each and every other home in the entire community*! The resultant aggregate amount of EMR from just this part of a meshed-grid's operation is both unimaginable and absolutely frightening! I won't discuss here all of the other radiation that occurs in a meshed-grid network, which is also substantial in and of itself.

Unless BCUC has the mettle and can muster the intestinal fortitude required to ignore what must be extraordinarily onerous political pressures from the BC Government (given that BC Hydro has virtually completed its BC Government-authorized roll-out of Smart Meters) to render a resounding NO to Fortis' application, an affirmative decision will condemn the defenseless public in Fortis' jurisdiction to what history will surely record was a *terrible Crime Against Humanity*. Barrie Trower, the famous British ex-military scientists has said that this criminal, unlawful experiment with EMR on an unsuspecting and helpless public will prove to be the worst Genocide in human history and, ultimately, will kill more people around the world than all of those killed in the entire Second World War (Google: Barrie Trower)!

As a retired Canadian military officer who spent more than 22 years in Electronic Warfare, Signals Intelligence and Radio Warfare, I know a great deal about this whole subject matter. For that reason, I earnestly hope you will listen to me. As a minimum, please take the time to view my PowerPoint presentation, which is attached. In it, I have assumed the role of "messenger" not the "expert." And I have ample evidence in every case to support what some of the world's best and brightest non-industry-funded scientists have said and are saying today.

Thank you for your time, and I pray you will have the strength to stand up and make the only decent decision free people in a democratic country deserve. It's not so much today's generation that is at risk here; it is the children and their children and all future generations. Whatever you decide will play heavily on your conscience forever.

God bless you and may you find the strength to rise to this occasion.

Yours truly,  
Jerry Flynn

# **EMR & Wireless Smart Meters**

**The Worst Threat to our**

**Health**

**Personal Privacy**

**Democracy**

**and**

**National Security**

**in Canada's Entire History**

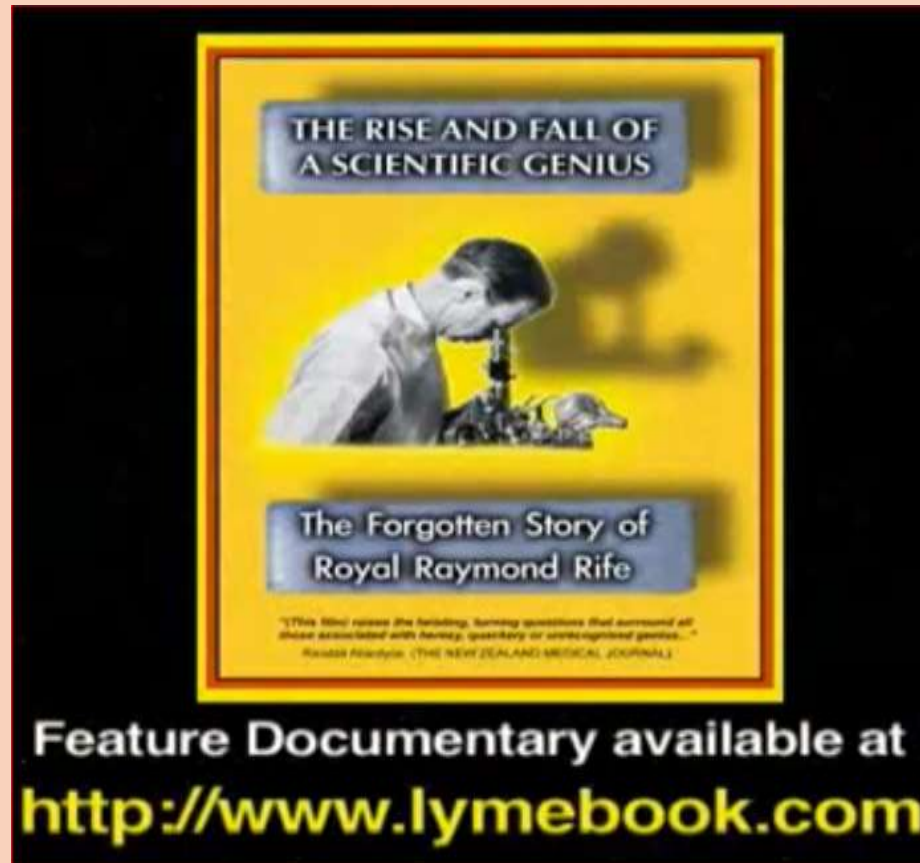
# Jerry Flynn's BIO

Retired Canadian Armed Forces Captain. Spent 22 of 26+ years' service in SIGINT, Electronic Warfare (EW) and Radio Warfare:

- 2 yrs as **Executive Officer (2-i/c) & Operations Officer** at ultra-sensitive radio station directly employing 200+ specially-trained radio operators & technicians;
- 2 yrs in National Defense Headquarters, in the **Directorate of Electronic Warfare**, as the Staff Officer EW for Canada's only Army EW Sqdn.
- Also conducted EW **at sea** with RCN and on land with **NATO army units**.

# The Giant of Modern Medical Science: Royal Raymond Rife

1888



1971

# **Rife's Microscope – 61,000X Magnification!**

**Rife became the first human being to actually see a live virus, and until quite recently, the Universal Microscope was the only one which was able to view live viruses. Modern electron microscopes instantly kill everything beneath them, viewing only the mummified remains and debris. Rife's microscope can see the bustling activity of living viruses as they change form to accommodate changes in environment, replicate rapidly in response to carcinogens, and transform normal cells into tumor cells.**

<http://electroherbalism.com/Bioelectronics/RifeBare/Biography%20of%20Royal%20Rife.htm>

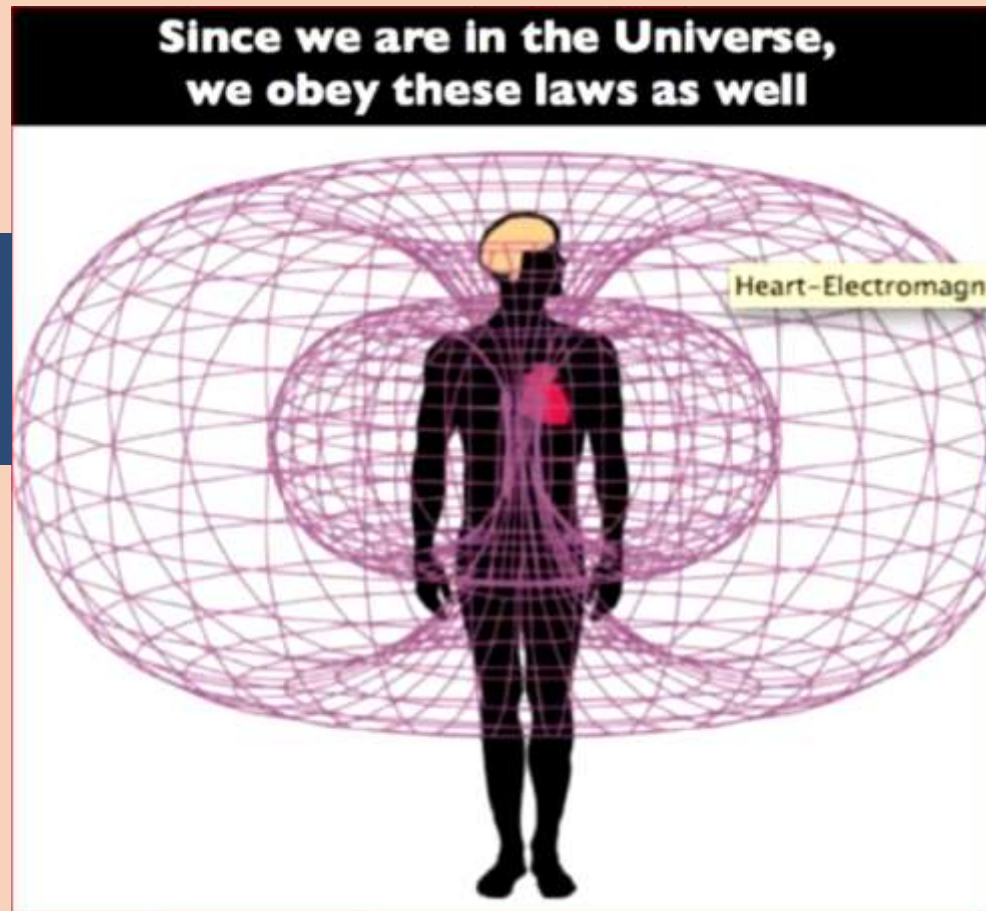
# Royal Raymond Rife (1888-1971)

**One day, his name may ascend to its rightful place as the giant of modern medical science. Until that time, his fabulous technology remains available only to the people who have the interest to seek it out. While perfectly legal for veterinarians to use to save the lives of animals, Rife's brilliant frequency therapy remains taboo to orthodox mainstream medicine because of the continuing threat it poses to the international pharmaceutical medical monopoly that controls the lives - and deaths - of the vast majority of the people on this planet.**



# Humans and all life forms are Bio-Electrical Beings

**Body**  
**7.83 Hz**

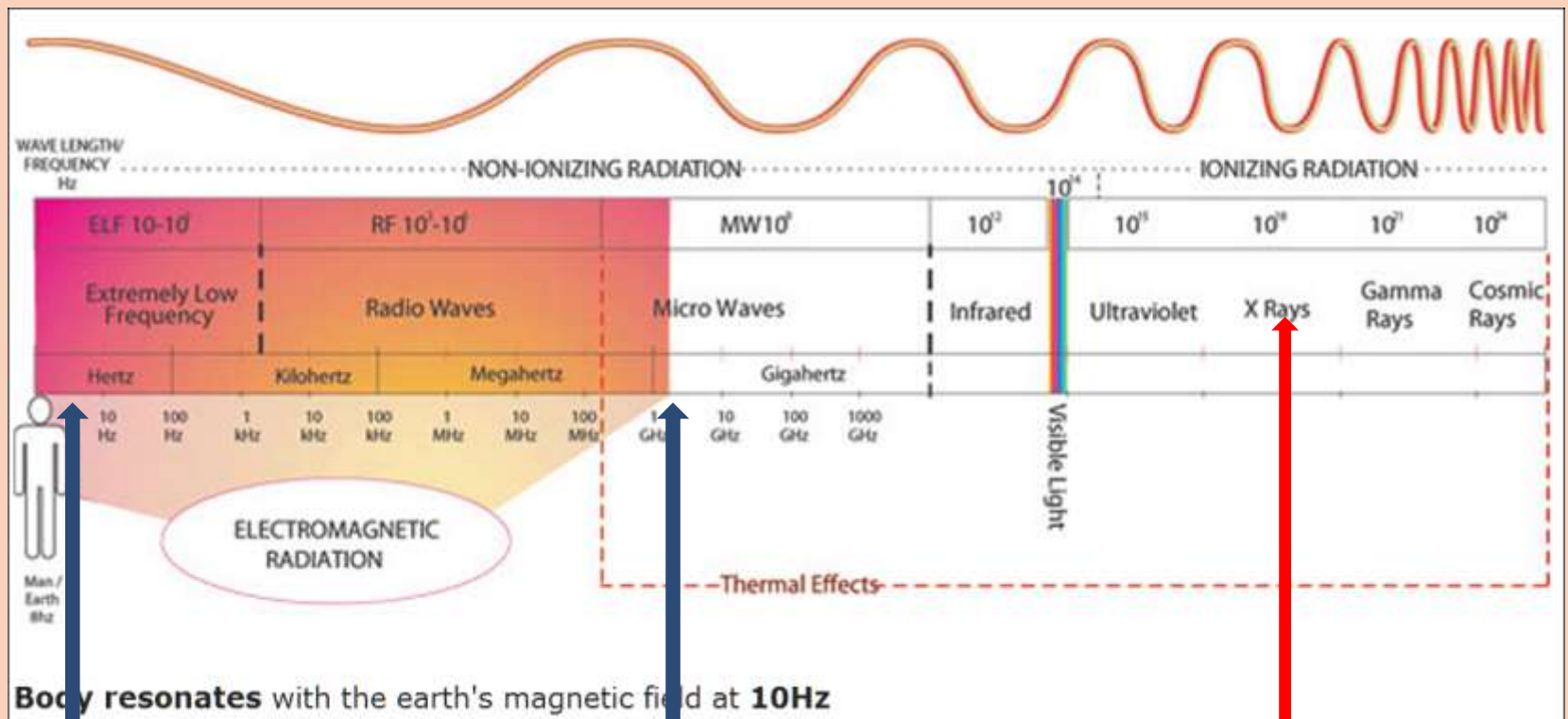


**Brain**  
**1-30 Hz**

# Electromagnetic Frequency Spectrum

Non-Ionizing radiation

Ionizing radiation



ECG

2.4 GHz

X-Ray

# Anatomy of Electropollution

The 100-trillion cells of the human body communicate with each other on **7.83 Hz** as well as through biochemical reactions. Continuous exposure to **EMR can drastically distort and disrupt** these cellular communications pathways, **resulting in abnormal cellular metabolism and, ultimately, disease.**

# Evolution of Technology

- Prior to 1897 – virtually NO EMR
- (1920s) **AM radio**
- (1940s) radar
- (1950s) **FM Radio and TV**
- (1970s) computers
- (1980s) **mobile phones**
- (2000s) wireless technologies &  
**compact fluorescent lighting**

# U.S Embassy – Moscow ('53 – '76)

(6-8 Hours a Day, 5 Days Week)

**Was irradiated with M/W frequencies at lower power levels than Canada now permits.**

- **2 ambassadors died of cancer;**
- **3<sup>rd</sup> developed leukemia-like blood disease & bleeding eyes & eventually died from it;**
- **At least 16 women developed breast cancer;**
- **Many other staff suffered immune system disorders, high white blood cell counts, chromosomal breaks, chronic fatigue, blurred vision, cataracts & muscle aches.**
- **U.S. KNEW but DIDN'T TELL embassy for at least 10 years!**      (Ref: Barrie Trower)

# Project Pandora

Eldon Byrd, a scientist for the Naval Surface Weapon Centre, USN, said about M/W radiation in 1986: **'We can alter the behaviour of tissues, cells, organs and whole organisms.... you can cause up to six times higher foetus mortality and birth defects in laboratory animals, and these fields are so weak you can hardly detect them...It is known how to induce malignant diseases in human cells and how to cure them...'**

<http://www.youtube.com/watch?v=xehJzyttZr8>

# Non Lethal Microwave Weapons

<u>Frequency</u>	<u>Illness Caused</u>
4.5 Hz	Paranoia;
6.6 Hz	Depression/Suicide;
11 Hz	Manic behavior/Anger;
25 Hz	Blindness if aimed at the head; Heart attack if aimed at the chest.

Other frequencies cause hysteria, trauma, lust, murder and cancer, and may all be induced. <http://www.planningsanity.co.uk/reports/trower.htm>

# Wireless Devices

AM & FM radio towers, satellite TV, Amateur Radio, airport radars, police radars, **Microwave ovens**, cell phones, cell phone towers, iPhones, smart phones, **cordless phones**, iPads, tablets, **Wi-Fi routers**, home security systems, DECT digital baby monitors, laptops, garage door openers, Bluetooth, remote control units, Wi-Fi hot spots, GPS satellites, **Tetra Networks (BC Hydro 409-430 MHz)**, Wi-Max towers,

(Cont'd)



# Wireless Devices (Cont'd)

military & scientific satellites, motion detectors, **Wi-Fi hotspots: cities, towns, buildings, buses, restaurants, planes**), body area networks (BANs), **Car Wi-Fi**; RFIDs (900 MHz), X-rays, CT Scans, MRIs, Pagers, **some Copiers**, Motion Detectors, **Wii & Wii U**, and **Xbox 360 games**. Car-collision avoidance, **Smart Meters, Meshed-grid networks**, etc.

# Man-Made EMR

Scientists estimate that Earth's level of EMR is now *100-200 million times greater* than it was 100 years ago, and that it *has increased 1,000,000 times in just the last decade!* All wireless transmitting devices emit EMR, but none moreso than *wireless smart meters in meshed-grid networks.*

# 2012 - Alarming Facts

Global increases in past 20 years

Autism --- 600% to about 70-million!

ADD ----- 400%!

Asthma – 300% to about 300-million!

Food Allergies – 400% to >270-million!

Diabetes – 220-million now; rising to  
400-million by 2030!

Male Sperm – Average man has lost 53% in  
past 50 years! Will be “0” in 70 years!

[www.gulf-daily-news.com/NewsDetails.aspx?storyid=341914](http://www.gulf-daily-news.com/NewsDetails.aspx?storyid=341914)

# Autism: 1 in 88 in China & North America

North America: 1 in 88 is Autistic;

China: No official numbers exist, but estimate 10-million children are Autistic, and 1 in 88 of general population.

<http://www.thestar.com/news/canada/article/1285628--the-autism-project-in-china-private-school-for-autistic-children-provides-hope>

# Electro Hypersensitivity: “EHS” Symptoms

**“Microwave Sickness,” first reported in 1932,**  
Includes **headaches**, dizziness, **disrupted sleep**,  
insomnia, **fatigue**, nausea, **heart palpitations**,  
memory loss, **tinnitus**, skin rashes, **muscle and**  
**joint pain**, leg and foot pain, **tingling**, irritability,  
**numbness**, nosebleeds, **depression**, anxiety, etc.  
Ten per cent of European population is EHS now;  
experts fear will grow to **50% by 2017!**

# Illnesses Linked to EMR

Many cancers, neurological conditions, ADD, sleep disorders, depression, Autism, Alzheimer's, Parkinson's, cognitive problems, cardiovascular irregularities, hormone disruption, immune system disorders, metabolism changes, stress, fertility impairment, increased blood brain barrier permeability, mineral disruption, DNA damage, etc.

# Royal Canadian Navy Korean Veterans (1950-1974)

Grouping occupational groups according to exposure levels also reveals dose-response increases for Total Death, All Disease, All Cancer and Lymphatic/hematopoietic Cancer, Figure 42.

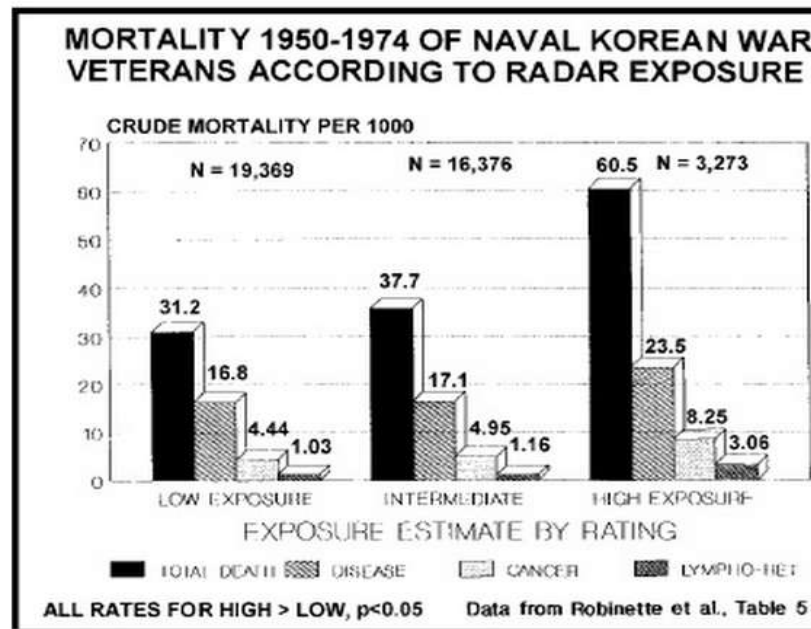


Figure 42: Naval occupations grouped by exposure category, showing dose response increases in mortality for all mortality, all disease, cancer and Lymphatic/Leukaemia. Low exposure (RM+RD), Intermediate exposure ET+FT), High exposure (AT), prepared by Prof John Goldsmith.

# 1971 - U.S. Naval Medical Research Institute

By 1971, NMRI had referenced  
2300 research articles listing more  
than 120 illnesses attributed to R/F  
and non-ionizing M/W radiation.

[www.magdahavas.com/wordpress/wp-content/uploads/2010/08...](http://www.magdahavas.com/wordpress/wp-content/uploads/2010/08...)



# Robert O. Becker, MD; 1923 – 2008

Brilliant Medical Researcher

In the 1970's Becker warned that power frequency and radio wave fields were damaging to health. He lost his research funding and was forced out of the Veterans Administration Hospital in Syracuse University subsequent to this 60 Minutes interview.

<http://www.earthpulse.net/Becker.htm>

# Earth's No. 1 Pollutant - EMF

"I have no doubt in my mind that at the present time, the greatest polluting element in the earth's environment is the proliferation of electromagnetic fields. I consider that to be far greater on a global scale, than warming, and the increase in chemical elements in the environment."

- Dr Robert O. Becker MD, twice nominated for Nobel Prize

# 1973 – M/W Radiation Study

## NRC and University of Ottawa

In view of the expected proliferation of M/W devices, *a substantial increase in ambient levels of M/W is feared that may endanger human health.* On this basis *strict control of the use of these devices must be introduced while present safety standards are revised and extensive research is conducted into long term effects of exposure to low intensity M/W radiation. In particular, a study of possible accumulative effects of M/W radiation be conducted.*

<http://www.scribd.com/doc/30905148/NRC-Canada-Environmental-Pollution-by-Microwave-Radiation-Potential-Threat-to-Human-Health-1973>

# 1974- Most Lethal M/W Frequencies 0.95 and 2.45 GHz

“Research conducted at **Stanford Research Institute**, Menlo Park, California in 1974, showed that experimental exposure to high levels of microwave radiation well above U.S. and Canadian guidelines killed rats within a matter of seconds to few minutes. Of the 4 frequencies tested, the two most lethal frequencies were 0.85 and 2.45 GHz ....920 to 960 MHz, which is exactly the most deadly frequency specified by this research.” [MagdaHavas.com](http://MagdaHavas.com)

# 1975 – U.S. Defense Intelligence Agency

In 1975 the DIA warned all of its personnel of the risk from low level microwave radiation i.e., illnesses ranging from microwave sickness (flu-like symptoms, depression, suicidal tendencies) to **cancers** and **leukemia**

[www.wirelesswatchblog.org/wp-content/uploads/2001/11/20...](http://www.wirelesswatchblog.org/wp-content/uploads/2001/11/20...)

# Barrie Trower

Cited a 1950s report stating: *“If this paper becomes known around the world, it will threaten military and commercial interests.”* He especially condemned Health Canada’s Code 6

[prd34.blogspot.com/2012\\_03\\_04\\_archive.html](http://prd34.blogspot.com/2012_03_04_archive.html)

He also said: “A 1976 Document summarizing U.S. Defense Intelligence research is the **saddest and most despicable document ever published in history.**” The document lists all of the health hazards caused by wireless devices and concludes: *“This should be kept secret to preserve industrial profit.”*

[vitalitymagazine.com/article/why-our-world-is-electropo...](http://vitalitymagazine.com/article/why-our-world-is-electropo...)

# 1976 - Sworn to Silence About non-thermal EMR

U.S. Government advised its western allies not to talk about non-thermal effects of microwave radiation. If it did not heat the body, they were not to talk about it.

Ref. Barrie Trower

# 1979 – NIOSH & OSHA Warning

(National Institute Occupational Safety & Health, and Occupational Safety Health Agency)

“While scientists are not in complete agreement regarding the significance of reports of "**non-thermal**" effects observed in laboratory animals, NIOSH believes **there is sufficient evidence** of such effects to cause concern about human exposures. NIOSH and OSHA recommend that **PRECAUTIONARY** measures be instituted to minimize the risk to workers from unwarranted exposure to RF energy” [www.cdc.gov/niosh/docs/80-107/](http://www.cdc.gov/niosh/docs/80-107/)



# The Precautionary Principle

The “Precautionary Principle” states: **if an action or policy has a suspected risk of causing harm to the public or to the environment, in the absence of scientific consensus that the action or policy is harmful, the burden of proof that it is not harmful falls on those who say it is safe.**

[http://en.wikipedia.org/wiki/Precautionary\\_principle](http://en.wikipedia.org/wiki/Precautionary_principle)

# 1986 - Understanding Microwave Radiation

Following the 1986 Chernobyl incident  
it was found that **long-term,  
continuous, low-level radiation** of all  
types was as dangerous as high level  
doses of radiation!

<http://www.planningsanity.co.uk/reports/trower.htm>

# 1990 – U.S. EPA

## Environmental Protection Agency

EPA'S "Draft" report recommended EMR be classified **2B "Possible" carcinogen. 33 of 35 international research studies on EMR made a **conclusive link** between brain tumours, leukaemia & other forms of cancer & electromagnetic stress. *US Military, Telecom Industry & others dumped on EPA. Report was altered.***

"Electromagnetic Radiation," Chloe Wadsworth

- EPA had funding cut from \$870,000 to \$25,000/yr
- EMR shifted to FCC
- 1996 – US Telecommunications Act

# 1993 - U.S. FDA

Food & Drug Administration

**Data “Strongly Suggest” M/W can promote cancer.** At the height of public concern over cell phone–brain tumor risks, FDA biologists concluded that the available data “strongly suggest” that **M/W can “accelerate the development of cancer.”**

(obtained by Microwave News under the Freedom of Information Act.)  
<http://microwavenews.com/news/backissues/j-f03issue.pdf>

# W.H.O.

## 1996 – International EMF Project

In response to the public's concerns about the health effects of EMF exposure, in 1996 the W.H.O. established the ***10-year, \$250-million International EMF Project, lead by Prof. Michael Repacholi to assess the scientific evidence of possible health effects of EMF in the frequency range from 0 to 300 GHz.***

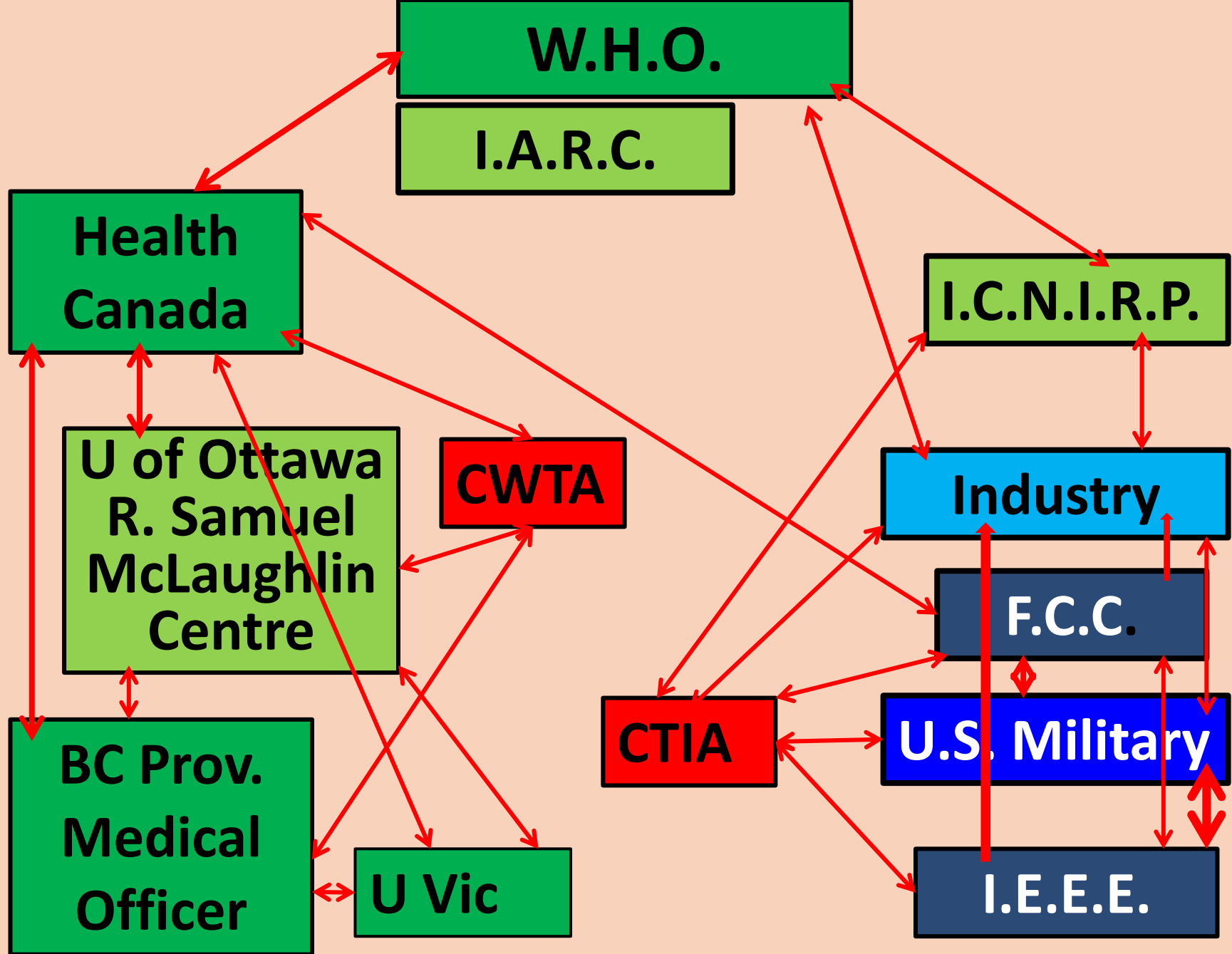
[http://www.who.int/peh-emf/project/EMF\\_Project/en/index.html](http://www.who.int/peh-emf/project/EMF_Project/en/index.html)

# 1996 - Corruption in the W.H.O.

*Dr. Michael Repacholi said:*

**“PRECAUTIONARY policies should NOT be applied to EMFs!”** He recruited only *utility reps.* to help him write the 1<sup>st</sup> draft of the WHO’s Exposure Limits, and later had them review the completed draft. Then he invited eight utility reps. to attend a task group meeting — *No independent scientists were invited!*

<http://lifeenergies.com/he-emr/>



## **FCC – Federal Communications Commission**

An independent agency of Federal Government. Its 5 commissioners are appointed by Pres. of U.S. for 5 year terms.

## **IEEE – Institute of Electrical and Electronics Engineers.**

NFP org. with 400,000 members in 160 countries of whom 51.4% are in the U.S.

## **IRPA – International Radiation Protection Association.**

46 societies representing 58 countries with 17,000 individual members. Focus was atomic radiation.

**ICNIRP** – a sub-org of IRPA. Founded in 1992 Repacholi was founding Chairman. Based in Germany. Charter says they cannot accept money from Industry.



# **1996 – U.S. Federal Court ruled citizens can't sue electric utilities over EMR**

**In the summer of 1996, a U.S. Federal Court ruled that citizens may not bring suit against electric power companies over electromagnetic radiation emissions.**

**[http://www.think-aboutit.com/energy/pwr\\_line.htm](http://www.think-aboutit.com/energy/pwr_line.htm)**

# 1998 – U.S. NIEHS

National Institute of Environmental Health Sciences

**Classified EMFs a 2B “Possible”  
carcinogen, using the same IARC  
criteria, a view that NIEHS Director  
Kenneth Olden later endorsed in his  
report to Congress.**

<http://safelevel.com/news.html>

# 1998 - Cell Phones – Motorola

When Dr. Jerry Phillips, under contract to Motorola in the '90s, published his findings that *cell phone frequencies have an important biological impact on DNA, he too was threatened and ostracized by the wireless industry.* Phillips had earlier discovered that *radio frequency fields can influence the growth of tumors.*

<http://www.youtube.com/watch?v=8YBxyY8FoOs>

# 1999 – U.S. NIEHS

National Institute of Environmental Health Sciences

**They studied the health effects of EMF exposure & found conflicting results. The majority of their voting members voted to **acknowledge EMFs as a possible carcinogen**. They concluded that ELF-EMF cannot be recognized as entirely safe because of weak scientific evidence.**

<http://www.concernedcitizensmontana.net/Publish/Appraisal.groupone.pdf>

# 1999 - Industry Tries to Corrupt Science

**Dr. Henry Lai**, one of the world's leading radiation experts, who had been studying the biological effects of EMF for 20 years, was asked three times to change his findings on how they caused DNA breaks in rats.”

Express Newspapers 24 May, 1999 <http://lifeenergies.com/he-emr/>

# 1999 – U.S. Consumer Affairs Commission

Found current ***thermal*** guidelines associated with EMR are ***irrelevant***, *since cancer and Alzheimer's are associated with ***non-thermal*** EMR effects.*

<http://lifeenergies.com/he-emr/>

# 2000 - T-Mobile's Own Cell Phone Study

Germany's ECOLOG report following their T-mobile-funded study of the latter's cell phones found: they cause cancer, DNA damage, chromosome aberrations, changes to enzymes, changes in the brain, interruption of cell cycle and cellular communication, debilitation of the immune system and changes to the central nervous system.

<http://www.ecolibria.com.au/Resources/electromagnetic-radiation/emr-and-potential-adverse-health-affects>

# 2000 Salzburg Resolution (Siting of Cell Towers)

**19 distinguished scientists from 10 countries:**

Italy, Canada, Russia, China, Austria, U.K.,  
Switzerland, Poland, USA & New Zealand

recommended: 1) max. RF exposure for humans be no more than 0.1 uW/cm<sup>2</sup>. 2) existing ambient levels of EMF must first be considered, 3) public's health & safety must be considered; 4) exposures must be as low as possible, but within the strict public health guidelines.

[www.land-sbg.gv.at/celltower](http://www.land-sbg.gv.at/celltower)



# 2001 – United Kingdom

**In 2001, an advisory committee to the UK National Radiological Protection Board chaired by Sir Richard Doll, acknowledged the possible link between EMFs and cancer.**

<http://safelevel.com/news.html>

# 2002 - Freiburger Appeal

Initially signed by 270 medical consultants, scientists, GPs, MPs & physicians, has now been signed by more than 6,000 German doctors, as well as countless others worldwide. **It lists 13 severe chronic illnesses & various disorders involving:** behaviour, blood, heart, cancers, tinnitus, migraines, susceptibility to infections and sleeplessness, all ascribed to **pulsed M/W from mobile communications technology.**

<http://omega.twoday.net/stories/555926/>

# 2002 – FCC & IEEE Guidelines

In a July 16, 2002 letter from **Norbert Hankin** of the EPA's Center for Science and Risk Assessment, Radiation Protection Division to **Janet Newton**, President of The EMR Network, Mr. Hankin writes: “*The FCC's current exposure guidelines, as well as those of the IEEE and the ICNIRP are thermally based, and do not apply to chronic, non-thermal exposure situations.*”

<http://lifeenergies.com/he-emr/>

# **(c2003) - EMF and EMR NO Safe Threshold Level**

**EMF & EMR damage DNA and enhance cell death rates and therefore they are a Ubiquitous Universal Genotoxic Carcinogen that enhances the rates of Cancer, Cardiac, Reproductive and Neurological disease and mortality in human populations. Therefore there is no safe threshold level. The only safe exposure level is zero, a position confirmed by dose-response trends in epidemiological studies.”**

**Dr Neil Cherry (1946-2003) held the position of Associate Professor of Environmental Health at Lincoln University, New Zealand. <http://www.wirelesswatchblog.org/>**

# 2003 - U.K. Gov't Bans Cell Phones in All Schools

Teachers have been **ordered to ban their pupils from using their mobile phones** amid rising safety fears. UK Education Secretary David Blunkett has taken the unusual step of writing to ALL schools in **England and Wales**. Mr Blunkett said mobile phones should only be used by pupils under 16 in **EMERGENCIES**.

[The Sun, UK Press Sunday, November 16, 2003](#)

# 2004 - Suppressing the Science on Cell Phone Risks

**Leading Austrian medical researcher Prof. Franz Adlkofer coordinated the 4-year REFLEX study of EMR bioeffects funded by the European Commission. The study's conclusion: High frequency electromagnetic fields damage genes and gene function. He tells how telecom interests tried (unsuccessfully) to discredit the study and destroy the careers of its authors and publishers.**

<http://eon3emfblog.net/?p=382>

# 2005 - Corruption in W.H.O.

On the 5th of July 2005, it was published that *Dr. Michael Repacholi* – Coordinator of the WHO's Radiation & Environmental Health Unit- *receives \$150,000 a year directly from the cellular phone industry with additional money for meetings and travels.*

[microwavenews.com](http://microwavenews.com) 5.7.05)

# 2005 - This is Democracy?

**Government and computer manufacturers caught installing hard-wired keystroke loggers into all new laptop computers!**

**Devices capture everything you ever type, then can send it via your ethernet card to the Dept. of Homeland Security without your knowledge, consent or a search warrant each time you log onto the internet!**

**Turner Radio Network | October 4, 2005**

<http://www.keyghost.com/securekb.htm>



# 2006 - Cell Phones Affect Sperm Count

- An American study from the Reproductive Centre in Cleveland in 2006 shows that men who used a mobile phone had a 25 per cent lower sperm count than men who never used a mobile. Sperm counts in the US have plummeted 29 per cent, attributed by the study's authors to mobile phone emissions."103

<http://www.ecolibria.com.au/Resources/electromagnetic-radiation-emr-and-potential-adverse-health-affects>

# 2006 – Cell Towers

## 7 Develop Brain Tumors

In Melbourne in 2006 seven people at the Royal Melbourne Institute of Technology (RMIT) developed brain tumours two floors underneath transmitting antennas. They had been working there for ten years.

# W.H.O. funding summary for the International EMF Project (July 2006-June 2007)

## INCOME

**\$249,682 Governments**

**\$529,820 Others (i.e. Industry)**

**USD \$779,502 TOTAL INCOME”**

<http://inthesenewtimes.com/2011/03/06/repacholi-admits-interference-from-the-industry-at-the-who-emf-project/>

# 2007 – Industry's roving ambassador

*Prof. Repacholi*, on leaving the W.H.O. became roving ambassador for industry, promoting wireless devices to children and schools.

*He's also Chairman Emeritus of ICNIRP*

<http://inthesenewtimes.com/2011/03/06/repacholi-admits-interference-from-the-industry-at-the-who-emf-project/>

# **2007 Bavarian Parliament (Germany) Recommends No Wi-Fi**

**In 2007 the Bavarian parliament (Germany) recommended the use of wired networks in all Bavarian schools due to **health concerns** and had each single school informed about this recommendation by the state secretary himself.**

[http://download.bildung.hessen.de/medien/einrichtungen\\_medien/support/Bayer-StaMi-Empfehlung-20070823.pdf](http://download.bildung.hessen.de/medien/einrichtungen_medien/support/Bayer-StaMi-Empfehlung-20070823.pdf)

# 2007 – the Bioinitiative Working Group

**A worldwide body of scientists and public health experts, released a 650-page document with over 2,000 studies linking RF and EMR exposure to cancer, Alzheimer's disease, DNA damage, immune system dysfunction, cellular damage and tissue reduction.**

[Prof. James F. Tracy in www.globalresearch.ca/PrintArticle.php?articleId=31816](http://www.globalresearch.ca/PrintArticle.php?articleId=31816)  
<http://international-emf-alliance.org/index.php/appeal>

# 2008 – Dismantling Wi-Fi in Schools

Members of the European Union, which has led the way on EMF investigations, are moving quickly to protect their citizens, particularly children and pregnant women. In the past 2 years alone, **France, Germany, and England** have dismantled wireless networks in schools and public libraries, and other countries are pressing to follow suit.

<http://www.msnbc.msn.com/id/34509513/ns/health-cancer/t/electrosmog-harming-our-health/#.UPnBRR2rnTp>

# **2007 - Cordless (D.E.C.T.) Phones**

**2.4 GHz radiate <200 Meters**

**Increased risk of brain tumor**  
**(high grade malignant glioma)**  
**when used mostly on only one**  
**side of head is**

**470%!**

**(BioInitiative Working Group August 2007)**



# **2008 – Cell Tower 8 Brain Cancers**

**San Diego State University. All eight cancer victims worked in or near the 3-story building on which a cell tower was mounted.**

**Another professor who worked in the building is said to be suffering from another kind of brain cancer.**

**<http://healthjournalism.org/blog/tag/brain-cancer/>**

# 2008 - Venice Resolution

Signed by **50+ peer reviewed scientists world- wide**, it says, in part, “We are compelled to confirm the existence of non-thermal effects of EMF on living matter, which seem to occur at every level of investigation .... Recent epidemiological evidence is stronger than before ....and we call on governments to apply the **PRECAUTIONARY PRINCIPLE** as an interim measure while more biologically relevant exposure standards are developed.

[www.icems.eu](http://www.icems.eu)

# 2008 – Two Billion May Suffer From Cell Phone Cancer by 2020

The studies and survey conducted by Australian Health Research Institute indicates that **due to billions of times more in volume EMR emitted by billions of mobile phones, internet, intranet and wireless communication data transmission will cause** almost one-third of world's population (about two billion) will suffer from ear, eye and brain cancer, and other major body disorders like heart ailments, impotency, migraines, epilepsy

[http://emrstop.org/index.php?option=com\\_content&view=article&id=151:2-billion-may-suffer-from-cell-phone-cancer-by-2020&catid=6:emfemr-information&Itemid=36.](http://emrstop.org/index.php?option=com_content&view=article&id=151:2-billion-may-suffer-from-cell-phone-cancer-by-2020&catid=6:emfemr-information&Itemid=36)

# 2009 – Cell Tower 43 Cancer Victims

MALAGA - SPAIN



43 cancer cases among 350 residents living  
near a mobile telephone relay antenna



# 2009 - Belgian Court Bans Cell Tower

On May 18, 2009, District court of Ghent , Belgium banned installation of a 28-meter phone mast in Drongen, saying: **"Until it has-been Scientifically proven that radiation from relay antennas is without risk to human health, it should be admitted that It probably is dangerous."** Verdict was a first in Belgium; although France has made similar decisions previously.

# 2009 India – Cell Phones Banned in all Schools

**Karnataka State, India Bans  
cell phones in all schools and  
pre-university colleges.**

<http://www.hindu.com/2009/09/14/stories/2009091454460500.htm>

# **Doctors/Scientists Call for Moratorium or Stricter Guidelines on All WiFi Devices**

**Seletun Consensus Statement 2010**

**Copenhagen Resolution 2010**

**Int'l Appeal of Würzburg 2010**

**Dutch Appeal 2009**

**EMF Resolution 2009**

**Porto Alegre Resolution 2009**

**European Parliament**

**Paris Appeal 2009**

**London Resolution 2009**

**Venice Resolution 2008**

**Berlin Appeal 2008**

**Brussels Appeal 2007**

# 2010 (?) - Health Warning

**Dr. Andrew Weill, a leading health expert warns “Electromagnetic pollution (EMFs or EMRs) may be the most significant form of pollution human activity has produced in this century!” “In recent years our bodies are being blanketed in these man made electromagnetic fields that they are not used to. Never before has humankind been exposed to such high amounts of this very disruptive energy, and effects are cumulative.”**

<http://www.guidetobodycleansing.com/electromagneticradiation.html>



# 2010 – Canada's National Research Council (NRC)

Nov. 2010 – NRC reports that **many Canadians are *being exposed to dangerous levels of radiation*** in its journal Environmental Review. It concludes that ***a new biologically based guideline is needed, instead of the dangerous, outdated thermal guidelines***. [http://safeschool.ca/Health\\_Warnings.html](http://safeschool.ca/Health_Warnings.html)

# 2010 - Proliferation of EMR Causes Dire Warning – Dr. Samuel Milham

He discovered that most 20<sup>th</sup> century diseases, e.g. cancer, cardiovascular disease, diabetes & suicide are caused by EMF exposure and warns

that: *“because of the recent proliferation of EMR from cell phones and towers, terrestrial antennas, Wi-Fi and Wi-max systems, broadband internet over power lines, and personal electronic equipment, we may be facing a looming epidemic of morbidity and mortality.”*

<http://www.amazon.com/exec/obidos/ASIN/145023822X/optimalwellnessc>

# 2010 - U.S. EPA.

Environmental Protection Agency

The EPA publicly acknowledged in its report: “Evaluation of the Potential Carcinogenicity of EMFs,” that electromagnetic pollution is a **serious threat to health**. “More and more people living near high-voltage lines have reported severe symptoms and **even life-threatening diseases.**”

<http://www.emfnews.org/headset.html>

# **2010 – U.S. Gov't. panel urges Precautionary Principle for EMF**

**In 2010, the U.S. President's Cancer Advisory Panel pointed to cell phones and other wireless technologies as potential causes of cancer. The panel recommended, "When credible evidence exists that there may be a hazard, a precautionary approach should be adopted and alternatives should be sought.**

<http://willthomasonline.net/how%20to%20defend%20against%20smart%20meters.htm>

# 2011- Health Warning – Public is NOT being Protected

**February, 2011 - Scientific Panel concludes that standards for WiFi and other wireless devices are "entirely inadequate" and "strongly recommends that **schools do not install wireless internet** connections that create pervasive and prolonged EMF exposures for children."**

[safeschool.ca/Health\\_Warnings.html](http://safeschool.ca/Health_Warnings.html)

# 2011 - RUSSIA – CELL PHONES

**Increase in illnesses since 2000:**

**Among 15 to 17 year olds:**

- **Nervous system disorders - 85%,**
- **Epilepsy - 36%,**
- **Mental retardation - 11%,**
- **Blood & immune disorders - 82%.**

**In children under 14 year:**

- **Nervous system disorders - 58%,**
- **Blood and immune disorders - 64%.**

[http://iemfa.org/images/pdf/RNCNIRP\\_Resolution\\_2011.pdf](http://iemfa.org/images/pdf/RNCNIRP_Resolution_2011.pdf)

# **2011 - Council of Europe** **(47 countries – 800 million people)**

## **Committee calls for ban of cell phones and Wi-Fi in schools**

**Examined evidence that the cell phones and wireless internet connections have "potentially harmful" effects on humans, and decided that immediate action was required to protect children (Cont'd)**

<http://articles.mercola.com/sites/articles/archive/2011/06/02/european-leaders-call-for-ban-of-cell-phones-and-wifi-in-schools.aspx>

# Council of Europe – (Cont'd)

The committee report argued that it was crucial to **avoid repeating the mistakes made when public health officials failed to recognize the dangers of asbestos, tobacco and lead.**

<http://articles.mercola.com/sites/articles/archive/2011/06/02/european-leaders-call-for-ban-of-cell-phones-and-wifi-in-schools.aspx>



# 2011 - Remove Wi-Fi From Schools

**“As someone who has studied the effects of EMR on animals and humans for many years, my advice is for all schools that have Wi-Fi equipment to remove it immediately, replace it with cable, and disable the Wi-Fi on any laptops they wish to retain. It is my belief that the use of Wi-Fi in schools is and will continue to have adverse health effect on students, school staff and faculty and should be discontinued immediately.”**

**Dr. Andrew Goldworthy, BSc, PhD. Lecturer (retired)  
Imperial College of London. Portland Public Shools**

# 2011 – Council of Europe Notes “Conflict of Interest”

**“33% of studies funded by industrial concerns conclude that exposure to mobile telephone radio frequencies has an effect on our organism. That figure rises to over 80% in studies carried out with public funding.”** This is a “manifestly unacceptable situation pointing to CONFLICTS OF INTEREST which undermine the integrity, the genuine independence and the objectivity of scientific research.”

<http://www.assembly.coe.int/Documents/WorkingDocs/Doc11/EDOC12608.pdf>

# **2011 – Council of Europe EMR - Plants, Animals & Insects**

**Recent studies “clearly show the effects of mobile telephony microwaves on plant genes.” Electromagnetic waves interfere with navigation and communication in certain animals and insects. This may be one of the major causes of whales being washed up on beaches or colony collapse disorder in honeybees.**

<http://www.assembly.coe.int/Documents/WorkingDocs/Doc11/EDOC12608.pdf>

# Birds – Bees – Butterflies

Over Last 25 years

**Butterflies – 5 species now extinct in U.K.;**

**Arctic Migratory Birds - 109 species have shrunk in No.'s.;**

**Australian Shore Birds - 36 species have shrunk by 75%;**

**Butterflies (world) - 10% face extinction;**

**British Butterflies - 50% face extinction;**

**Bees – up to 75% fewer;**

**Asian Migratory Birds - 62% threatened;**

**Australian Wading Birds - 80% of them declined;**

**British Bees – half of species have declined by <70%;**

**U.S. Bees – No. of species decreased in size by <98%;**

**Birds – 190 different species imminent extinction**

**Birds – 1 in 8 of world's species under threat**

**[www.mastsanity.org/](http://www.mastsanity.org/)**

# Other Life Forms & EMF

**Sharks** – some can detect changes in electric fields as low as 0.5 uV/m;

**Racing pigeons** can detect changes as little as 100-1000 times lower than thought.

**Honey bees** are 10 times more sensitive to magnetic fields than the pigeon.

[ICEMS International Commission for Electromagnetic Safety 2010](#)

# 2011 - European Parliaments

(47 countries – 800 million People)

The Council of Europe and the European Parliament, two separate institutions of European leaders, have examined the issue thoroughly and concluded: **the need is to protect citizens from EMR, particularly "pregnant women, newborn babies and children."**

# 2011 – Seletun Scientific Panel Global Population is at Risk

Recommends current ICNIRP/IEEE limits be lowered 1,000-10,000 times to 0.1 uT (1 mG) for exposure to ELF (fields from electrical power) for all new installations, such as power lines, indoor electric appliances, house-hold items, TVs, radios, computers, and telecommunication devices, based on findings of risk for **leukemia, brain tumours, Alzheimer's, ALS, sperm damage and DNA strand breaks**. This includes NO safety margin, but starts right at the level where hazardous effects are found.

[http://emrstop.org/index.php?option=com\\_content&view=article&id=71&Itemid=35](http://emrstop.org/index.php?option=com_content&view=article&id=71&Itemid=35)

# **2012 - Teachers call to BAN Wi-Fi in Ontario schools.**

**Feb 13, 2012: Citing safety concerns, the Ontario English Catholic Teacher's Association representing 45,000 teachers, is calling for a ban on new Wi-Fi installations in the province's 1,400-plus Catholic schools and advocating that computers in all new schools should be hard-wired as well.**

<http://www.cbc.ca/news/canada/toronto/story/2012/02/13/toronto-oecta-wifi.html>



# 2012 – New Cell Towers Banned

**Until the scientific research on the human health effects of RF are conclusive.**

- 1) The European Union School Grounds  
(27 Countries – 500 million people)**
- 2) L.A. District School Grounds.**
- 3) International Association of Firefighters’  
Fire Stations (2004)**
- 4) Vancouver School Board - all future (2003)**

[Luzzaro, “Field of Cell Phone Tower Beams.”](#)

# Transmitter Distances

**Cell Towers -** < **40 km or 23 miles**

Spacing: 2-3 Miles (suburbs) ¼-1/2 miles apart (hi-density)

**Cell Phones -** < **5 Km**;

**Cordless Phones –** < **200 meters outdoors**

**Wi-Fi Routers**: 802.11(a) 50', (b) 150', (g) 150' or  
(n) 1450'

**Baby Monitors**: < **2000 feet!**

**BlueTooth -** < **10 meters**

**Smart Meters**: 1) LAN < **3 Km**;  
2) ZigBee: < **246 feet**

# 2012 - INDIA - Mobile Alert

Government orders **radiation emission tags** for all cell phones.

Delhi **wants rules** developed for mushrooming cell towers (January 2012)

<http://www.dailymail.co.uk/indiahome/indianews/article-2088560/Mobile-phones-come-radiation-emissions-tag-Delhi.html#ixzz1jt2pny73>

# 2012 – “Concrete evidence cell phones & Wi-Fi cause cancer”

**Dr Annie Sasco, PhD (former Director for 22 years of WHO's/IARC: International Agency for Research on Cancer) says: “Despite the voices of industry-funded scientists saying otherwise there is concrete evidence that mobiles/cellphones and wifi cause cancer in humans.”**

[http://www.youtube.com/watch?v=2JyAIO\\_UdSk](http://www.youtube.com/watch?v=2JyAIO_UdSk)

# 2012 – Looming Health Crisis

**As a multitude of hazardous wireless technologies are deployed in homes, schools and work places, government officials and industry representatives continue to insist on their safety despite growing evidence to the contrary. A major health crisis looms that is only hastened through the extensive deployment of “smart grid” technology.**

**Prof. James F. Tracy 07/2/2012**

**[www.globalresearch.ca/PrintArticle.hph?articleId-31816](http://www.globalresearch.ca/PrintArticle.hph?articleId-31816)**

# **2012 – Austria, Russia, Israel Oppose Wi-Fi in Schools**

**Austria (the Austrian Medical Association); the Russian National Committee on Non-Ionizing Radiation Protection, and the Israeli Minister of Health Rabi Yaakov Litzman.**

[http://www.cellphonetaskforce.org/?page\\_id=128](http://www.cellphonetaskforce.org/?page_id=128)

# 2012 - Russia Warns

**Pregnant women: avoid using mobile phones entirely ... also children under 18. Austria, China, Germany, India, U.K., Israel, Finland, Belgium, Ireland, Spain, Sweden & Toronto have issued health warnings for children: “use cell phones in emergencies ONLY – but only on speaker phone”**

# 2012 - International Doctors' Appeal

Supported by **>1000 physicians & 36,000 people world-wide**, consider the massive disruptions of the biophysical functioning of life as **the greatest biomedical experiment in human history ever**. We already know enough right now about the risks and dangers of wireless radiation to **demand immediate PRECAUTIONARY action from those in government**.

**[freiburger-appell-2012.info/en.php](http://freiburger-appell-2012.info/en.php)**



# **2012 - Low Levels of EMR Cause Blood-Brain Barrier to Leak**

**Swedish Health Neurosurgeon & Researcher, Dr. Leif Salford's many studies since 1988 show low levels of EMR from Wi-Fi, Smart Meters & Cell Phones cause the blood brain barrier to leak, calling the potential implications of some of his research "terrifying" as some of the weakest exposure levels caused the greatest effect.** <http://www.dailypaul.com/255400/neurosurgeon-shows-how-low-levels-of-radiation-such-as-wi-fi-smart-meters-and-cell-phones-cause-the-blood-brain-barrier-t>

# **2012 - Dutch Court Overturns Cell Permit – for BEES**

**A court in Zutphen, Netherlands has annulled a permit for a UMTS antenna due to beekeeping activities in the area. The Winterswijk municipality gave KPN the permit to build the tower in November 2010. Five local residents filed an appeal against the permit, and the court found that the city did not motivate its decision well enough to show there would be no negative consequences from the cell site. (11/5/2012).**

**<http://www.telecompaper.com/news/dutch-court-overturns-cell-permit-on-concern-for-bees--906102>**

# 2012 - EMF & Female Breast Cancer

**Female breast cancer has reached epidemic proportions, with 1 in 10 American women developing it and 1 in 4 dying. Alarminglly, of women who develop the disease, **55% have no known risk factors**. Breast cancer mortality rates are five times lower in Asia and Africa than in industrialized North America and northern Europe regions where EMFs are omnipresent.**

<http://bizgenerationnetwork.blogspot.ca/2012/07/lynas-cancer-and-you.html>

# 2012 - Italian Supreme Court Links Tumor to Cell Phone

ICEMS vs. ICNIRP; Hardell vs. Interphone . Oct. 23, 2012

The Supreme Court of Italy has affirmed a ruling granting worker's compensation to a businessman who developed a tumor after using a cell phone for 12 years. **This is the first time that a High Court —in any country—** has ruled in favor of a link between mobile phone radiation and tumor development! [www.theatlantic.com/health/archive/2012/10/italian-supr...](http://www.theatlantic.com/health/archive/2012/10/italian-supr...)

# **2012 – Two Cell Towers 7 Cases of Cancer**

**British cell phone company ordered to  
remove 2 cell towers from 5-story building:  
7 residents struck down by cancer. Three  
died; another 4 have battled the disease  
since masts were erected on roof.**

**Known as the Tower of Doom, the cancer  
rate on the top floor is 20%, 10 times  
national average!**

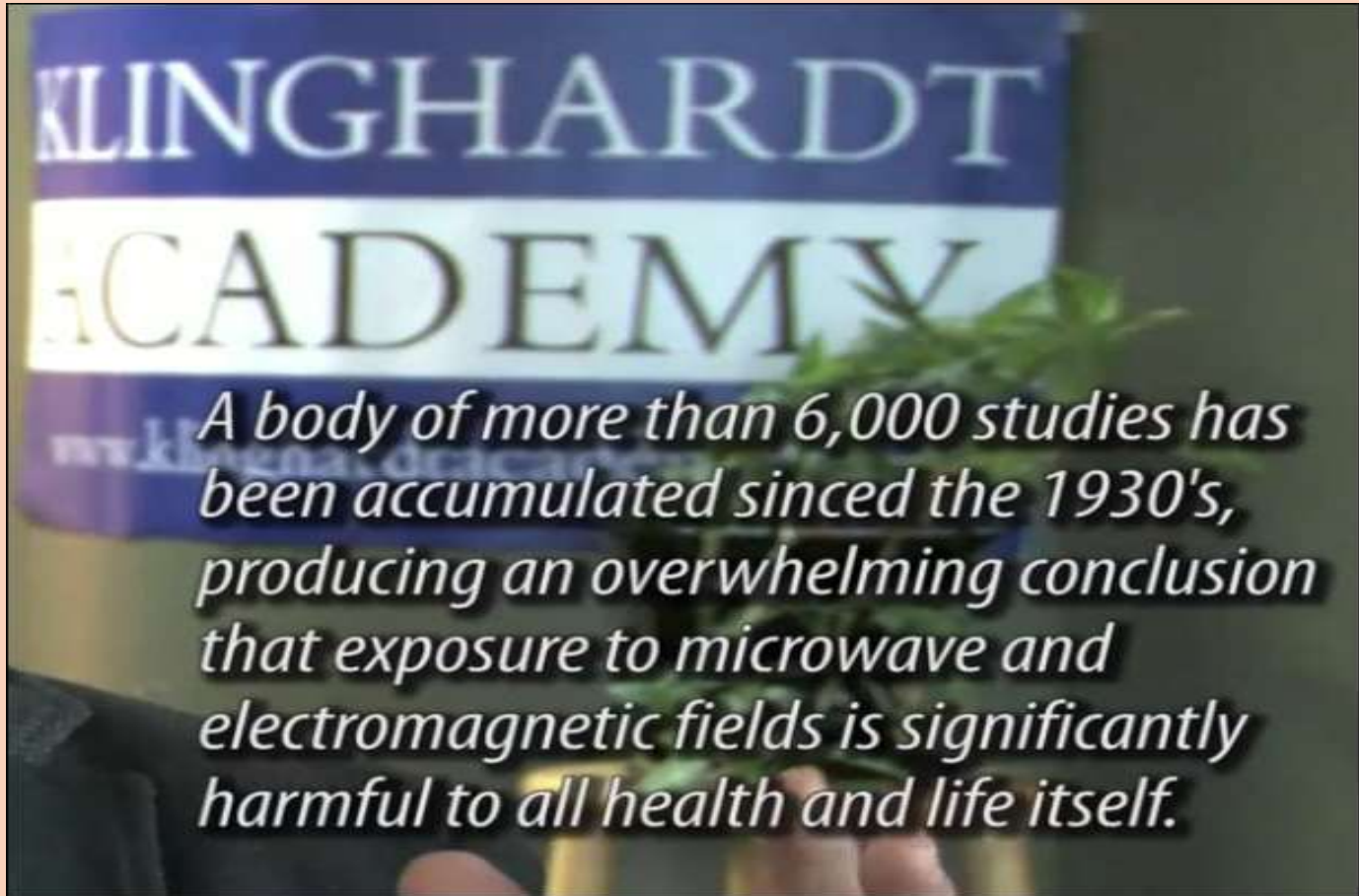
<http://www.agoracosmopolitan.com/home/Frontpage/2008/02/01/02182.html>

# Autism and Weak EMF

In his essay, “[How Electromagnetically Induced Cell Leakage May Cause Autism](#),”

Dr. Goldsworthy explains the potential mechanism for autism from exposure to ambient Wi-Fi. “...**Weak EMF can have a greater effect than strong ones** and thus prolonged exposure to weak fields (where cells are maintained in the unstable condition for longer) is potentially more damaging than relatively brief exposure to much stronger ones.”

# 6,000 Studies over 70+ years!



[stopsmartmeters.org.uk/dr-dietrich-klingshardt-smart-met...](http://stopsmartmeters.org.uk/dr-dietrich-klingshardt-smart-met...)

# **EMR level has increased more than 1,000,000 times in decade!**

**Dr. Priyanka Bandara, former Australian academic clinical researcher: "In this wireless age of advanced technology, most of us are unwittingly exposed to EMR from various man-made sources such as mobile/cordless phones, wireless internet and mobile phones that emit radiowave/microwave EMR. "The levels of this type of EMR in our environment have gone up by more than 1-million times in the last decade!"**

[www.ayubo.com.au](http://www.ayubo.com.au)



# 2012 - Prof. Repacholi a man with no conscience

**“..... certainly, from the health viewpoint *there is no concern that we’ve seen this far that *parents need to be worried about children’s use of mobile phones.*”***

<http://www.gsma.com/publicpolicy/repacholi-interviews-03/>

# 2012 – All Wireless Devices are Harmful

Washington DC, Oct. 2012: The world's leading researchers of wireless technologies, including Nobel Co-laureate Dr Devra Davis, discuss the biological effects. These two videos include critical information about how all wireless technologies (cell phones, cordless phones, wifi, cell towers etc.) impact our lives and harm our health.

<http://www.youtube.com/watch?v=Xtd-y2C9IH4&feature=endscreen&NR=1>

<http://www.youtube.com/watch?v=a6wLFelrCtU&feature=related>

# **2012 – Wireless is Compared to Tobacco**

**Former Microsoft Canada  
President,  
Frank Clegg**

**(Now President of Citizens for Safe Technology)**

**October 11th, 2012**

**Urges 1,000,000 Canadians to  
Demand Stricter Safety Standards**

**<http://www.facebook.com/c4st.org>**

# 2012 – ICEMS

International Commission for Electromagnetic  
Safety (non profit)

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

<http://www.icems.eu/resolution.htm>

# BioInitiative Report - 2012

**Reviewed >1800 new scientific studies:  
concluded the evidence for risks to health has  
substantially increased since 2007 from EMF and  
EMR. Cell phone users, parents-to-be, young  
children and pregnant women are at particular  
risk. “Epidemiological evidence shows that EMR  
should be classified a HUMAN CARCINOGEN. The  
existing FCC/IEEE and ICNIRP public safety limits  
and reference levels are not adequate to protect  
public health.”**

<http://www.fortmilltimes.com/2013/01/03/2415340/bioinitiative-2012-report-issues.html>

# Pregnant Women - EMR

**It has been demonstrated that pregnant women are at risk of miscarriage if they are subjected to high intensity EMFs during pregnancy. Miscarriage is an extreme (and tragic) response to a high level of EM radiation exposure. Lesser EMF levels may still damage the foetus while not causing an actual miscarriage.**

**<http://www.emwatch.com/Risk.htm>**

# **M/W Ovens Are Dangerous!**

**Soviets have issued an international warning on the health hazards (both biological and environmental) of M/W ovens and similar frequency electronic devices.**

**Health Effects of Microwave Radiation - Microwave Ovens by Lita Lee, Ph. D.**

# **Microwave Ovens - Dangerous**

- **Russian studies found M/W milk and cereal grains converted certain of their amino acids into carcinogens.**
- **When prepared meats were M/W enough to insure safe ingestion it caused the formation of d-Nitrosodiethanolamines, a well-known carcinogen.**
- **Thawing frozen fruits converted their glucoside- and galactoside-containing fractions into carcinogenic substances.**



# Microwave Ovens - Dangerous

If that doesn't scare you enough, what about the lawsuit in 1991 involving a woman who died after being given a transfusion of blood warmed in a microwave. It is routine to warm blood for a transfusion, but not in a microwave. The blood in this case was changed into a toxic chemical.

[www.guidetobodycleansing.com/microwaveovendanger.html](http://www.guidetobodycleansing.com/microwaveovendanger.html)

# **Deception Apparent at All Levels of the Scientific Process**

**Deception starts even before a study begins, as soon as the funding source is determined.**

**If it's an industry-funded study, the results are likely to overwhelmingly favor industry.**

**And if they don't, confidentiality agreements typically have been signed that prevent the research from ever seeing the light of day. [ElectromagneticHealth.org](http://ElectromagneticHealth.org), Magda Havas, PhD**

# Cell Phone Towers Canada



[Google: "Cell Towers Canada"](#)

# Siting of Cell Phone Towers Canada

**Federal jurisdiction.**

**No permits are required**

**Municipalities “*consulted*” if tower is  
15 meter or higher.**

**Telco’s now installing towers**

**14.9m - NO *consultation* required!**

<http://rense.com/general63/cel.htm>

# Cell Phones and Cancer

Welcome to the EM Radiation Research Trust

**Just 30 minutes a day on a phone  
increases your chance of getting  
brain cancer by 40%**

If you use a mobile for 10 years or more you are 290% more likely to  
get brain tumours and cancer. Now mobiles are common use, this will  
soon apply to all of us. [Read more...](#)

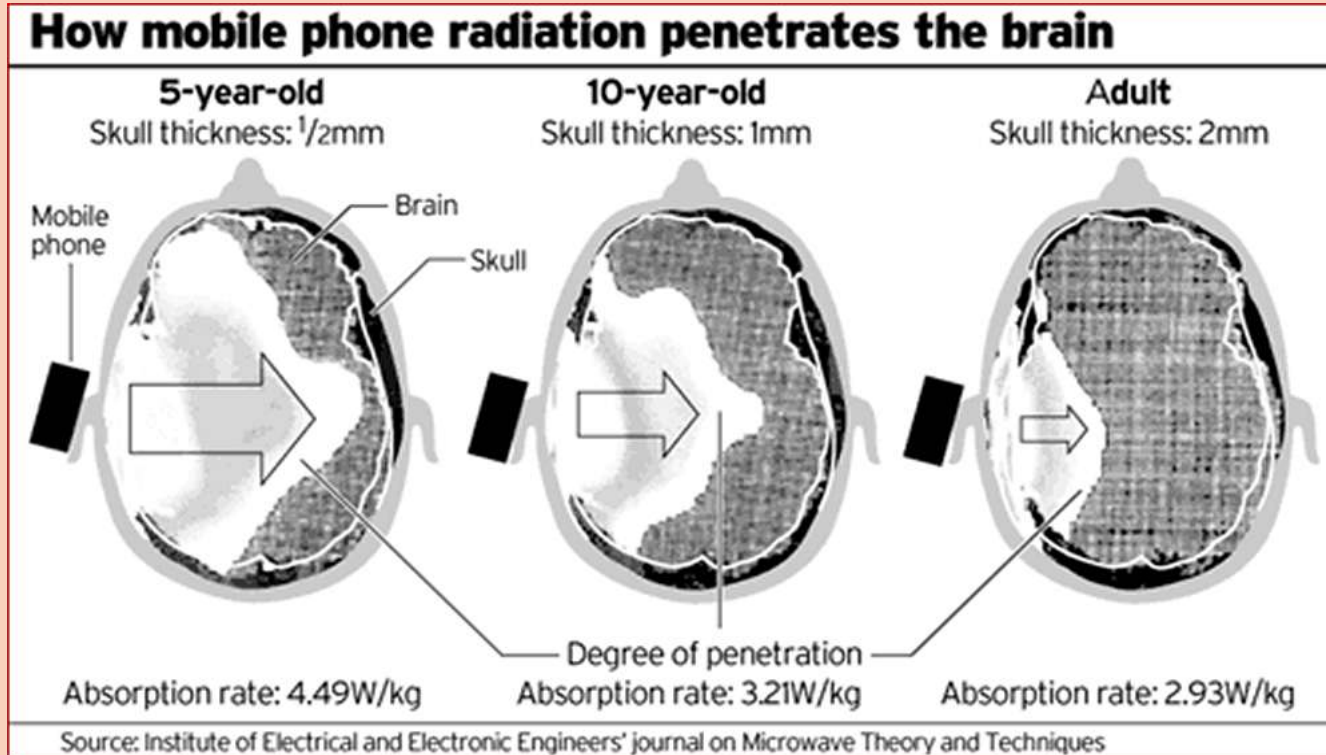


# Cell Phones

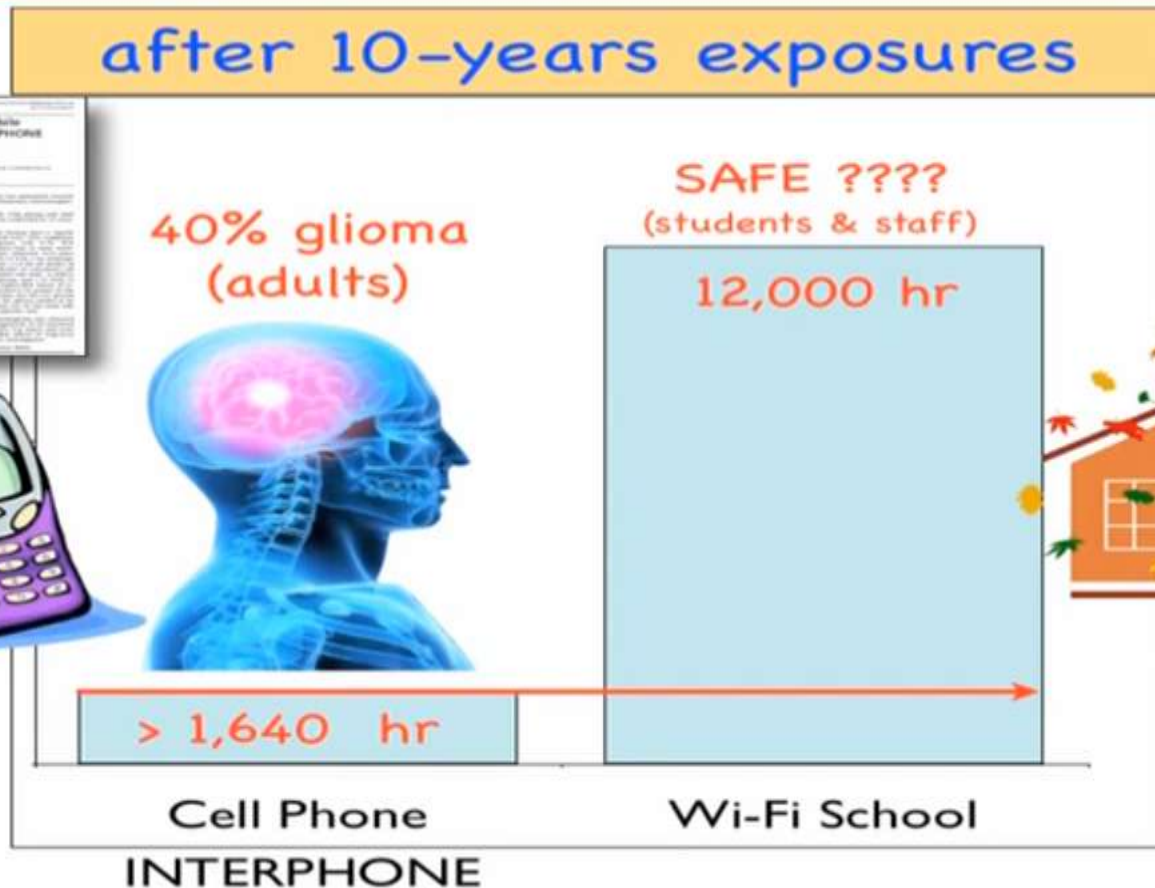
- **6-Billion** in world (2011)!
- Scientists have now studied EMR for **30+ yrs.**
- Know latency period is **10 – 30 yrs.**
- **Brain cancers** increased **50%** in 10 yr period 1999-2009!
- **Blackberry** advises users: keep phone **0.98”** from head .... Or any part of body!
- **Apple** advises users: keep phone **5/8”** from head ... or any part of body!
- **Motorola** advises users; Keep phone **1”** from body and don't point phone at any part of body!
- Don't use cell phone **inside vehicles** - more radiation!
- **Child's head** absorbs **5X** more radiation than an adult's.



# Cell Phone Radiation Penetration of a Human Head



# Wi-Fi in Schools is Safe?





**“Portable cellular telephones expose users to levels of radiation that are **much higher than the levels allowed for microwave ovens**, and that radiation is focused directly into the brain of each and every user.”**

## **2008 - Cell Phones – Russian Roulette**

### **Robert C. Kane**

**“Researchers have reported that from **50 % to more than 90% of the RF energy is absorbed by the user** instead of being transmitted into the atmosphere.”**

# Motorola Tries to Corrupt

**Professor Ross Adey**, a biologist and one of the world's leading radiation experts told The Express that

Motorola *withdrew their funding of his research which showed that **mobiles** affected the number of brain tumours in animals.*

# Dr. Devra L. Davis, Ph.D., Nobel Co-Laureate

**Says the latest research ties cell phone radiation to lowered sperm counts, an increased risk of Alzheimer's, and even cancer. Her book tells the story of *the dangers that the cell phone industry is knowingly exposing us-and our children-to in the pursuit of profit.***

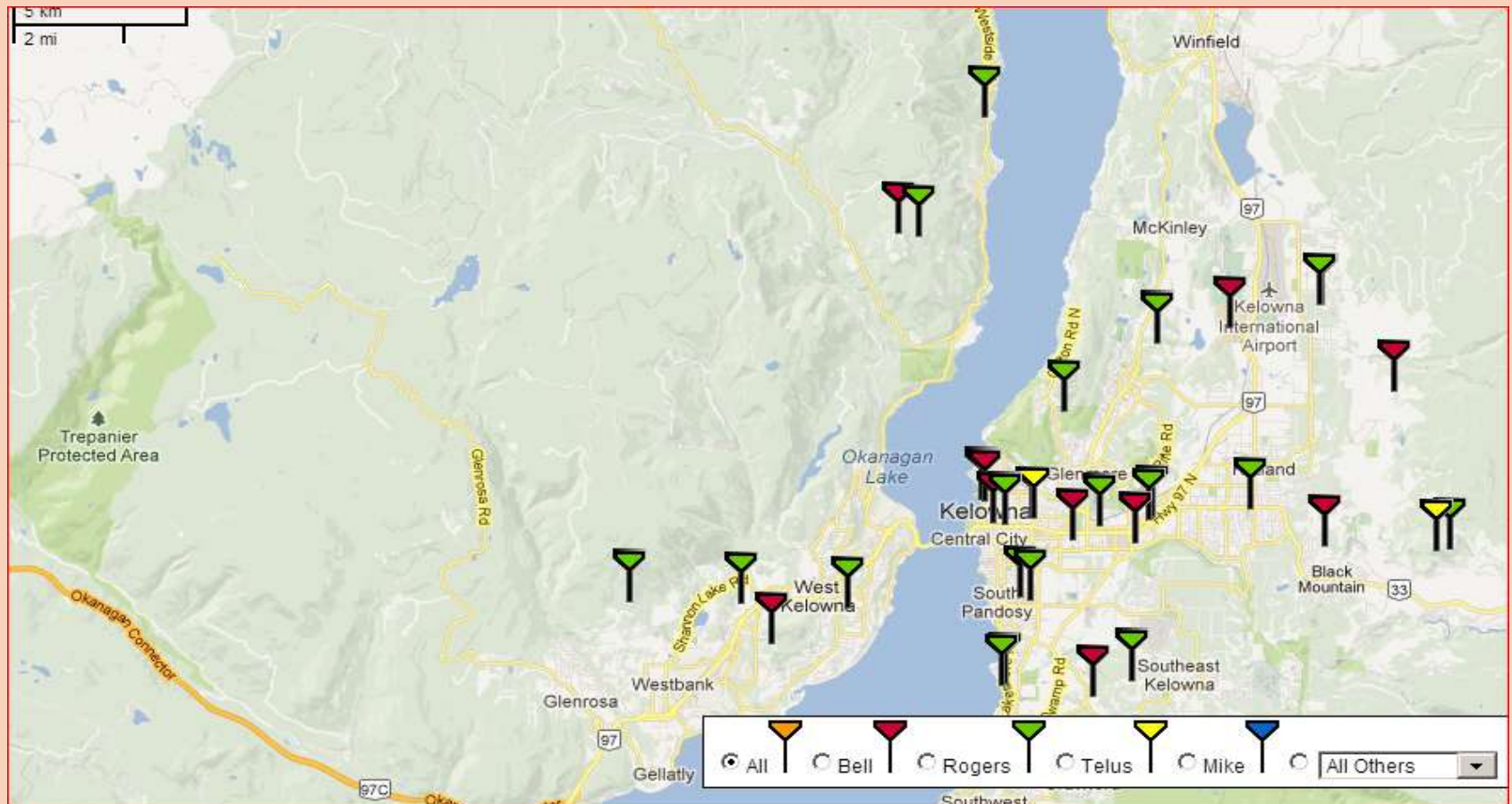
# WiFi & Cell Phone EMR Effects on Young Girls.

**Barrie Trower, scientific advisor to five organizations, says that low level M/W radiation can interfere with the genetics in the ovarian follicles, i.e., young girls when they're born, will have up to 400 eggs in their ovaries. M/W can damage the genetic structure in the ovaries. So, when young girl grows up, get married, and have children, their daughters' genetic damage is irreparable. Nothing can repair it.**

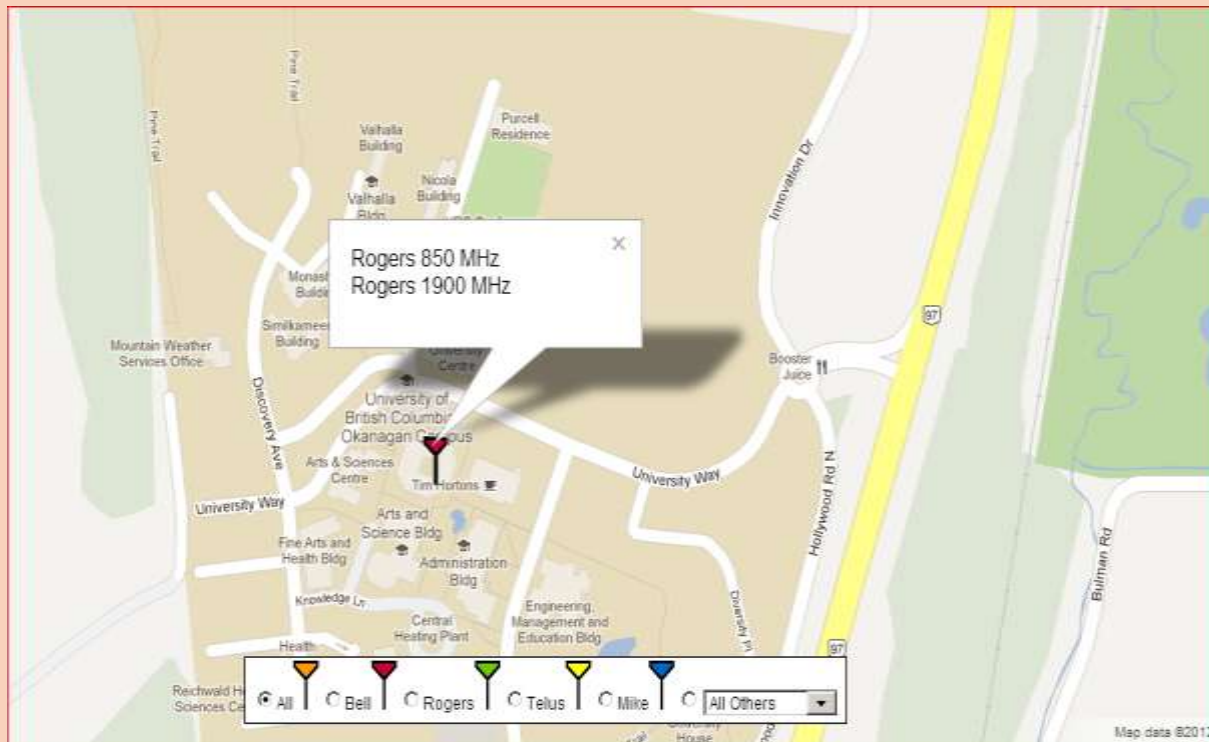
[www.zengardner.com/the-electromagnetic-war-on-humanity/](http://www.zengardner.com/the-electromagnetic-war-on-humanity/)

# Cell Phone Towers

## Kelowna to Winfield



# Cell Phone Tower UBC - Okanagan



# Cell Phone Towers Okanagan College

1) 850 MHz;

2) 850 MHz & 1900 MHz



# INSURANCE

Two of the worlds largest insurance companies, Lloyds and Swiss Re, have *recommended to other insurance companies on the advice of Dr Theodore Litivitz, Professor Emeritus of Physics at the Catholic University of America, to write in exclusion clauses against paying compensation for illnesses caused by continuous long-term low level radiation.*



# Radiation Comparison: Cell Phone Tower vs Wi-Fi Router vs Laptop Computer

## Microwave Radiation Comparison

Cell Tower:	800-900 mV/m
Classroom:	800-900 mV/m
Laptop:	2857 mV/m

<https://www.youtube.com/watch?v=xLseEYj76rQ>

# **Dangerous New Cell Phone Frequencies**

**The next spectrum up for auction is the 700 megahertz band & bidding could be held late this year or early in 2013. It will have limits on the amount of spectrum any one wireless carrier can buy. Will enable cellphone calls in elevators, deep in underground parking lots and in tunnels in big cities, and in basements and attics in suburban areas. It also provides better and more affordable coverage in rural Canada because fewer cellphone towers are needed to provide coverage.**

**<http://www.thestar.com/business/article/1168528--wind-mobile-wins-big-after-supreme-court-dismisses-rival-s-challenge>**

# Laptop EMR Causes Infertility

**A couple, both 30, visited doctors after trying to conceive for six months. Doctors said heat from a laptop had damaged Mr Reed's sperm. Three months after Mr Reed stopped using his computer in his lap his wife conceived. They now have an 11-month-old daughter.**

**<http://www.dailymail.co.uk/health/article-2228121/Couple-conceive-stunned-doctors-reveal-husbands-LAPTOP-cooking->**

# **\$Billions in Profit for the Government**

**The Cellular Communication industry generates billions in profit and in revenue for the government. It is linked to retirement funds, media, banking giants, entertainment industries, the educational market, the music industry and medicine. If enough news stories broke, and significant doubt in citizens replaced their complacent routine use of cell phones, the Industry would be forced to redesign wireless technology for safety and not just with more bells and whistles.**

<http://www.francesfox.com/enwhat-read-harmful-effects-cell-towers-cell-phones/>

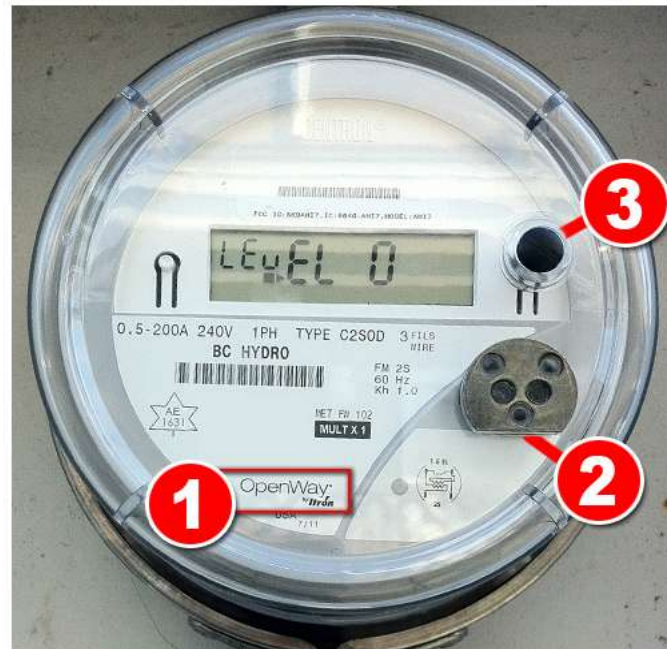
# SMART METERS

## End of Democracy

### BC Hydro Smart Meter ( Itron Centron II with OPENWAY )

which has **WIRELESS** functions.

It also can use Zigbee Wireless, Cellular phone network, Ethernet or Phone lines  
according to **Itron Patents** and **Itron Annual Reports**



#1 : FIRST CHECK FOR THESE WORDS "OPEN WAY" which are located at the Bottom

#2 : The distinctive "V" pattern on the right, this is a Dock for the hydro company to read the Smart Meter when there in person.

#3 : Notice the Black BUTTON for controlling the digital Display, Its only on a Smart Meter.

#4 : Installed after JULY 1st 2011

<http://emrabc.ca/wp-content/uploads/2011/06/smart-meter.jpg>

# SMART METERS

**Bill 17 – 2010**

**“CLEAN ENERGY ACT”**

**BC Utilities - Chose “WIRELESS”**

**Japan, France\*, Idaho, Tennessee,  
Virginia - Chose Fiber Optic Cable**

**Italy – Chose Power Line Carrier**

# HEALTH CANADA

(Tobacco, Asbestos, DDT, Lead)

## Safety Code 6 “Guidelines”

- Canada has NEVER done its own studies
  - Simply *adopted* INDUSTRY studies
- Which protect against THERMAL effects
- *Ignore* Non Thermal /Biogogical Effects

# Non Thermal Biological Effects of EMF

**ANSI, WHO, IEEE & ICNIRP**

**consider exposure below 0.01  
degrees C (0.08 W/kg) is negligible  
for the public**

**ICEMS International Commission for Electromagnetic  
Safety 2010**



# Canada's Radio Frequency "Exposure Limit" 1000 $\mu\text{W}/\text{cm}^2$

Russia, China, Italy, France, Australia, Most European Countries, Switzerland & Austria

**100s to 1000s of times LOWER (Safer)**

(100  $\mu\text{W}/\text{cm}^2$  was recommended by Toronto Board of Health back in 1999)

## Biolniative Report (2007)

Recommends 0.1  $\mu\text{W}/\text{cm}^2$

***(10,000 times Lower)***

# Public Exposure Guidelines

## 1800 MHz $\mu\text{W}/\text{m}^2$

Salzburg GSM/3G <u>inside</u> (2002)	1
Salzburg GSM/3G <u>outside</u> (2002)	10
EU-Parl (2001)	100
Salzburg 1998 (sum GSM)	1,000
Italy (single frequency)	1,000
Russia, PRChina	100,000
Italy (sum of frequencies)	100,000
Belgium (ex Wallonia)	1,115,000
<b>ICNIRP (1998), WHO</b>	<b>9,000,000</b>
<b>FCC (USA) [and Canada]</b>	<b><u>10,000,000</u></b>

[http://emrstop.org/index.php?option=com\\_content&view=article&id=71&Itemid=35](http://emrstop.org/index.php?option=com_content&view=article&id=71&Itemid=35)

# **HEALTH CANADA NEEDS TO LISTEN TO RUSSIA**

**“Action must be taken immediately to adopt biologically based guidelines to protect children. Current standards are based more on engineering needs than biological studies.”**

**Prof. Yuriy Grigoriev, Head of RNCNIRP**

**[RNCNIRPhttp://iemfa.org/images/pdf/Professor%20Yury%20Grigoriev.pdf](http://iemfa.org/images/pdf/Professor%20Yury%20Grigoriev.pdf)**

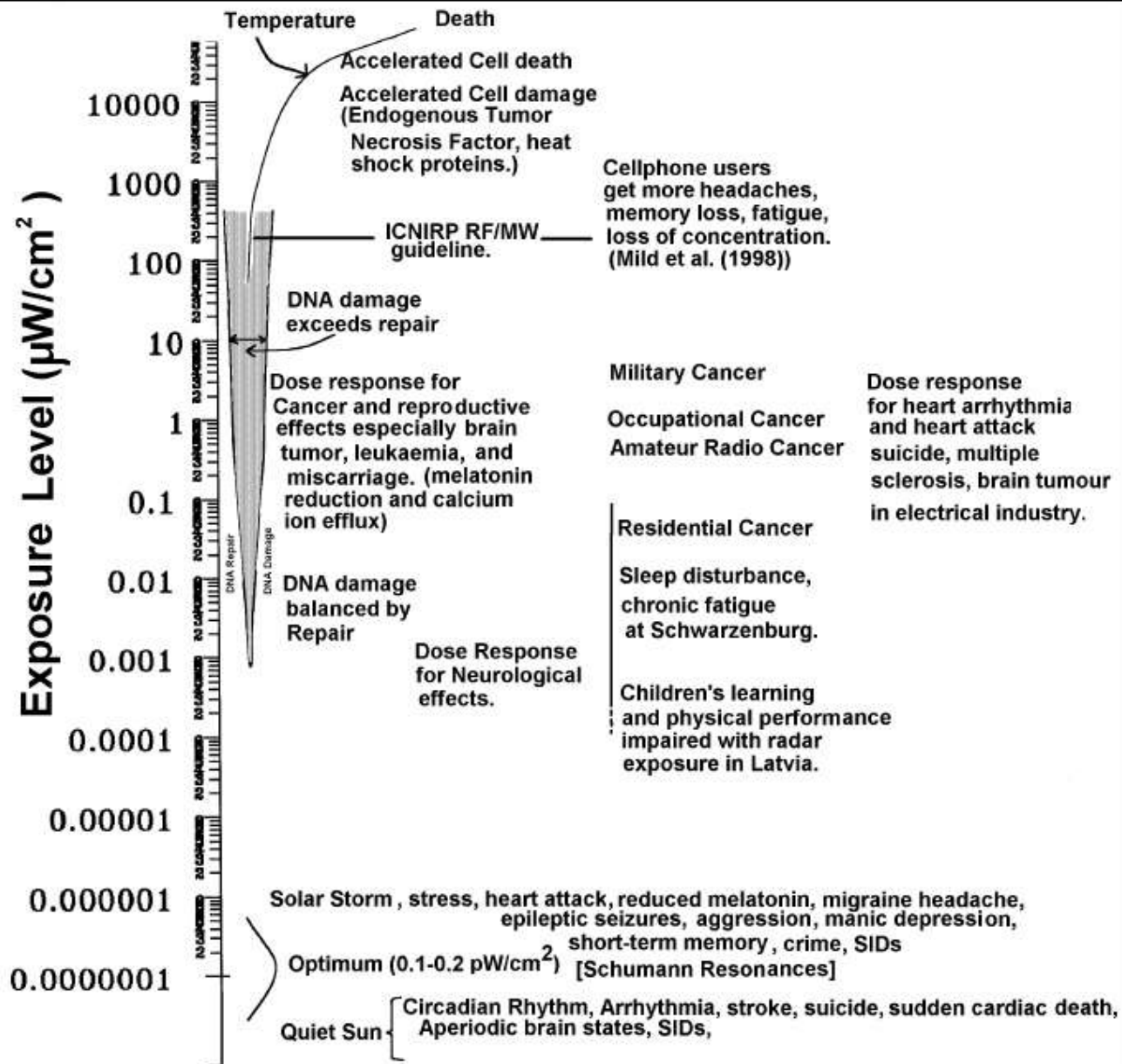
# Canada's M/W Frequency Exposure Limit for 1800 MHz

**10,000,000  $\mu\text{W}/\text{m}^2$  – Exposure  
Limits for Cell Phones (and all  
emitters on that freq. in Canada).**

**0.000002  $\mu\text{W}/\text{m}^2$  – cell phones  
can work down to about this level**

# Radiofrequency & Microwave Radiation Guidelines

**IEEE, FCC & ICNIRP present guidelines don't protect humans from harmful effects of chronic EMF exposure.** Recommend whole-body exposure of 33  $\mu\text{W/kg}$  (approx. **2,400X lower** than the current standards). On power density measurements, IEMFA's Seletun Scientific Panel finds sufficient evidence for a whole-body scientific benchmark for adverse health effect exists down to **0.17  $\text{mW/m}^2$**  (also **0.000017  $\text{mW/cm}^2$**  = **0.017  $\mu\text{W/cm}^2$** ), approx. **50,000 – 60,000X lower** than the current ICNIRP/FCC.



# 2007 - Effects of Low Level non thermal radiation below 1000 $\mu\text{W}/\text{cm}^2$

SMART meters, *light*Radio, wireless gadgets – are they safe?

Andrew Michrowski

Meg Sears, *Medical Perspective on Environmental Sensitivities*, Canadian Human Rights Commission, 2007

Power in microWatt/cm<sup>2</sup>

Observed result - from:

- 0.05 10 Feet / 3 meters from a Wireless Computer
- 0.168 Irreversible sterility in mice
- 0.2 to 8.0 Childhood leukemia near transmitters
- 0.3 Impaired motor function, memory & attention of school children
- 0-4 Altered white blood cell activity in schoolchildren
- 1.0 Headache, dizziness, irritability, fatigue, weakness, insomnia, chest pain, difficulty breathing, indigestion
- 2.5 Breakdown of blood-brain barrier (cell phone)
- 5.0 Leukemia, skin melanoma & bladder cancer near transmitter
- 2.0 "Microwave hearing" - clicking, buzzing, chirping, hissing, tones
- 5.0 Changes in liver, heart, kidney, and brain tissue
- 10.0 Damaged mitochondria, nucleus of cells in brain
- 10.0 Impaired memory & visual reaction near transmitters

# Effects of low level non thermal radiation below 1000 $\mu\text{W}/\text{cm}^2$

- ❖ **0.002  $\mu\text{W}/\text{cm}^2$**  - Sleep disturbance and fatigue.  
[Altpeter et al. \(1995, 1997, 2005\)](#)
- ❖ **0.168  $\mu\text{W}/\text{cm}^2$**  - Progressive decrease in number of newborns and irreversible infertility in mice after 5 generations exposure.  
[I.N. Magras and T.D. Zenos \(1997\)](#)
- ❖ **0.32-16.43  $\mu\text{W}/\text{cm}^2$**  - Attention, memory & motor function of school children significantly affected in comparison to control groups.  
[A.A. olodynski and V.V. Kolodynska \(1996\)](#)
- ❖ **2.5  $\mu\text{W}/\text{cm}^2$**  - Damage to blood-brain barrier.  
[Salford et al., \(1997\)](#)



# Austria Recommends Limit 10 Million Times LOWER than Canada's

- Salzburg Health Depart recommends **0.001**  $\mu\text{W}/\text{cm}^2$  for outdoor and **0.0001** for indoor exposure.
- The Swiss doctors' group – Physicians for the Environment - recently issued a public statement calling for reduction of their limit by **10X**, i.e. to **0.95**  $\mu\text{W}/\text{cm}^2$ .
- Luxembourg/Bulgaria at **2.4**  $\mu\text{W}/\text{cm}^2$ .

<http://goo.gl/4pzyE>

# World Health Organization

**“W.H.O.”**

**Classified **EMR** a**

**Class **2B** Carcinogen**

**“Possible” Cause of Cancer**

**May, 2011**

# EMR - What Scientists Say

- ❖ Olle Johansson, Sweden; “PROBABLE or DEFINITE”
- ❖ Dr. George Carlo, CTIA’s own USD 28.5-million study “DEFINITE”  
Dr. Thomas Rau, Med. Dir, Paracelsus Clinic, Switzerland – “CONVINCED”
- Prof. Darius Leszczynski, Radiation & Nuclear Safety, Finland – “PROBABLE.”
- Dr. Franz Adlkofer, EMF REFLEX Research Project “PROBABLE.” Austria
- ❖ Dr. David O. Carpenter, MD, U. of Albany (inferred) “PROBABLE” USA
- ❖ Safe Schools 2012 – 6 Med. Assn’s & 21 leading scientists – NO Wi-Fi in schools!

# October 2012

## Study of Pulsed M/W Radiation

University of Tampere, Finland and  
Tallinn University, Estonia.

### CONCLUSION AND RECOMMENDATIONS:

“....the research of non-thermal effects suggests that *all the factors related to possible Wi-Fi effects are not considered in current guidelines* ...Based on our results, we would recommend precautionary actions to reduce EMF exposure.”

[http://people.uta.fi/~mikko.ahonen/Ahonen\\_Koppel\\_Mlearn\\_Helsinki\\_Final\\_Draft\\_2012.pdf](http://people.uta.fi/~mikko.ahonen/Ahonen_Koppel_Mlearn_Helsinki_Final_Draft_2012.pdf)

# Smart Meters - Germany

**Germany's decision on whether to mandate the introduction of smart grids could make or break the European industry, according to a new study from analyst firm Berg Insight. Germany is the only major country in Western Europe that has not required utilities to introduce smart-grid technology, and take-up has consequently been disappointing**

<http://www.telecomengine.com/article/germany-decide-future-smart-metering-2013-report>

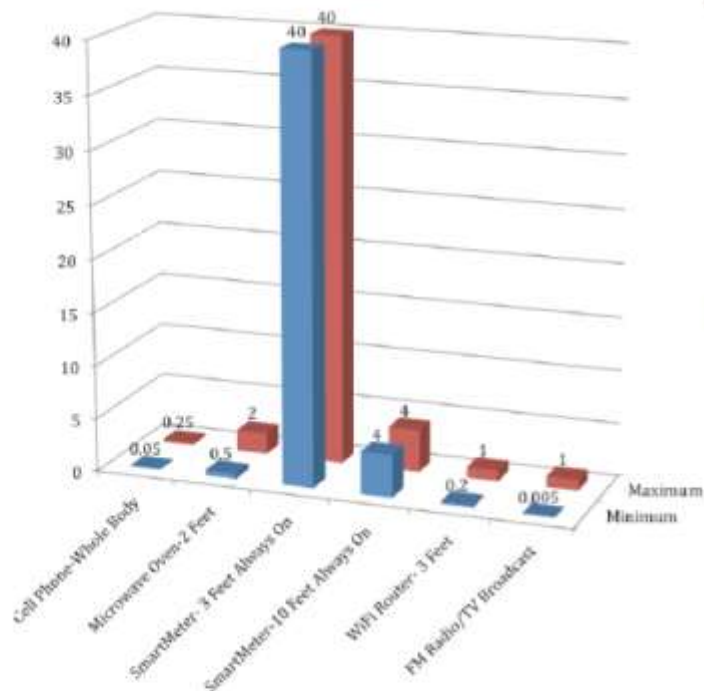
# Smart Meters vs Cell Phones

- Fortis BC (like all utilities) says: **one can stand next to a Smart Meter for 20 years and receive no more radiation than from a 30 minutes cell phone call.**
- Dr. Daniel Hirsch, PhD. U. of C. says: **whole body radiation from a Smart Meter equates to from 45 to 450 times more than a cell phone - depending on one's distance from the Smart Meter.**
- [mapawatt.com/2012/02/12/are-smart-meters-safe/](http://mapawatt.com/2012/02/12/are-smart-meters-safe/)

## SMART METER EXPOSURE LEVELS

California Council on Science  
and Technology (CCST)

*After correcting for duty cycle and  
dissimilar units....*



**Cumulative whole  
body exposure of  
Smart Meters is two  
orders of magnitude  
higher than cell  
phones.**

**SOURCE:** Daniel Hirsch, Comments on the Draft Report by the California Council on Science and Technology "Health Impacts of Radio Frequency from Smart Meters", 31 January 2011



# Smart Meter Radiation Kills Plants





# Smart Meters vs Cell Phones

Fortis Says: On average, a meter transmits customer data 4 to 6 times a day, for a total average of one minute per day.

Pacific Gas & Electric in a California Court of Law admitted that on average a meter pulses 14,000 times per day to a maximum of 190,000 and a peak power level 2-1/2 times higher than the stated safety signal, which is 10X more powerful than a cell phone! Even this does not include the ZigBee-related EMR from the 15-or-so “smart” appliances, nor the Collector EMR, nor the incalculable “relays” that would occur.

# Utility Executives Tell the Truth at CA Public Utilities Commission

**Silver Spring Networks executives admitted SmartMeters are transmitting continuously 24/7. Even though they only upload usage information 6 times per day to PG&E, they are continuously 'chatting' with each other 24/7 every few seconds in order to authenticate and keep the network synchronized. 90% of the meter chatter is to keep the network synched up – radiation that has nothing to do with customer energy useage**

▪ <http://stopsmartmeters.org/2011/09/15/utility-and-smart-meter-tech-company-executives-get-grilled-by-the-public/>

**ZIGBEE RADIO – 2.4 GHz** controls and talks back and forth to  
15-or-so pulsing M/W appliances & devices



# “Trojan Horse”



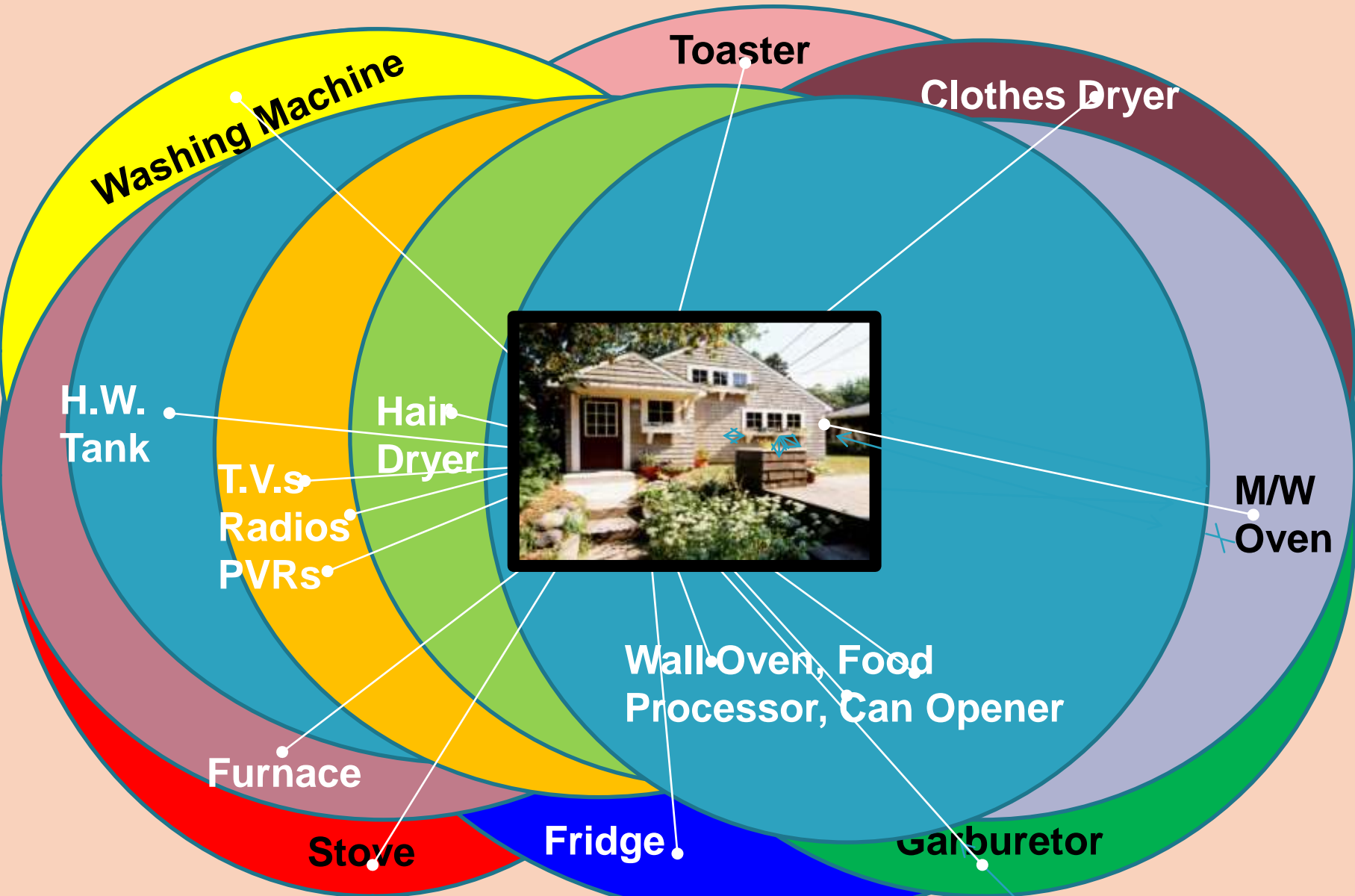
# The Smart Meter Lie: What Utilities Don't & Won't Tell You

They envisage every home having 15-or-more 'smart' appliances, meaning each home will have 17+ pulsing microwave transmitters, *16 of which will operate on the same frequency as your microwave oven: 2.4 GHz!*

The 17<sup>th</sup> transmitter, the LAN, radiates for distance of up to 3 Km, *meaning every home will radiate – and be radiated by – every other home in the entire community!*



# Your ZigBee 2.4 GHz Transmitters



# Your “Meshed-Grid” Community

500 homes = 500 Smart Meters = 1,000 Tx/Rx circuits:

a) 500 LAN Tx/Rx (910 MHz, .5 Watts ERP) +

b) 500 “ZigBee” Tx/Rx (2.4 GHz, 186 mW ERP)

Homes are expected to have 15-or-so “Smart” appliances,” each with its own 2.4 GHz Tx/Rx for a total of **7,500** “smart” appliances.

Plus “**Collector**” meter, with **3** Tx/Rx, 3<sup>rd</sup> being WWAN (850 MHz). Homes will endure **<500 relays on every transmission - in BOTH directions!**

All 8,503 Tx/Rx in community emit pulsed M/W radiation – **8,001 on same M/W oven frequency – but these are all PULSED!**

# FORTIS BC Says:

**Smart Meters will help keep rates lower ... **save customers >\$19 million (less electricity theft) and lower meter reading costs.****

## FACTS

**CBC Survey of Toronto – >80% higher bills!**

- Many report monthly bills doubling, tripling & even quadrupling!**
- Analogue meters cost \$50 & last 30-50 yrs**
- Smart Meters cost <\$500 & last <8 to 12 yrs**
- Smart Meters have caused countless fires**



# Higher Monthly Bills

**“B.C. isn’t the first jurisdiction to be shocked this way. After smart meter installation began in the United States around 2006, complaints of higher-than-normal bills surfaced in **Texas and California.** **Class-action lawsuits were launched.**”**

**Earlier this month, the **California Public Utilities Commission** announced that it may allow customers of **San Diego Gas & Electric Co.** and **Southern California Edison** to replace their smart meters with analogue meters for a fee after power bills spiked.”**

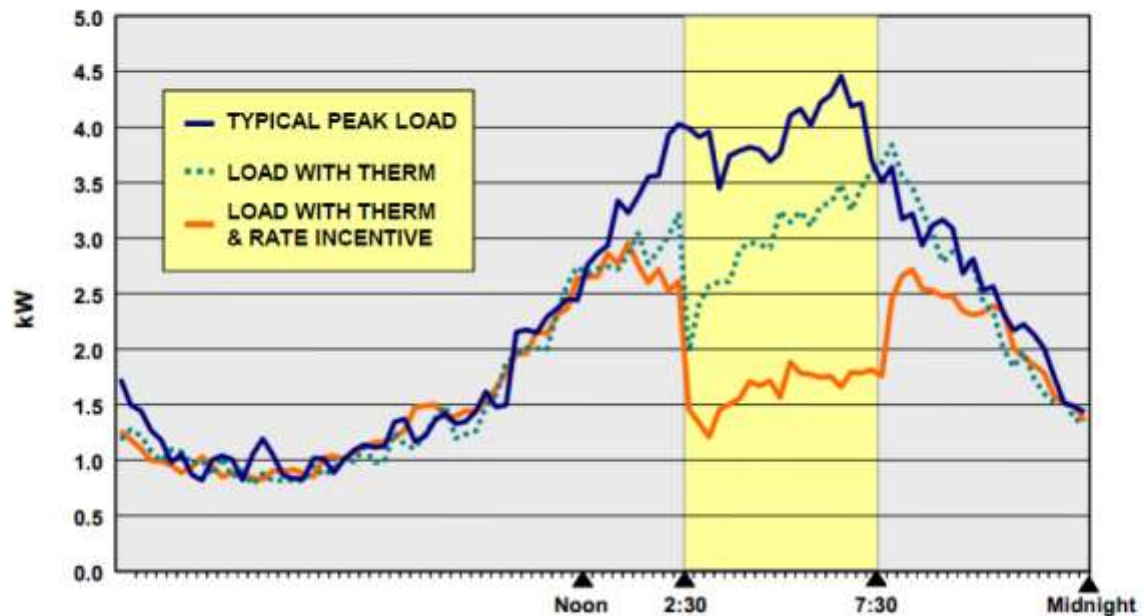
# **Smart Meters Will Cost U More!**

**Attorneys General in both Connecticut and Illinois doubt SMs provide any financial benefit to customers, who must pay for frequent hardware & software upgrades; may have to buy new 'smart' appliances to be compatible with SMs. Low income families will suffer most (time of use billing)**

**[http://en.wikipedia.org/wiki/Smart\\_meter](http://en.wikipedia.org/wiki/Smart_meter)**

# SMART GRID OVERVIEW

## DEMAND RESPONSE



**Will Lead to Time of Use Billing?**

SOURCE: Edison Foundation

# The Canadian Smart Grid Standards: Privacy of Customer Data

*Third-Party Access to Customer and Utility Data:* Beyond the *Smart Grid Privacy Principles* are the detailed protocols and ground rules by which third-party service providers may access customer data and receive data on the customer's behalf from their local utility. In Ontario, this issue has risen to prominence; an emerging class of private-sector players has expressed interest in accessing real-time smart metering data to provide a burgeoning array of Smart Home products and services. Section 5 of this report also includes a technical approach to resolve this access issue in a safe and secure manner. The Task Force notes that the North American Energy Standards Board (NAESB)<sup>17</sup> has just concluded the development of a comprehensive set of detailed recommendations regarding the division of responsibility between third parties and utility companies that warrant a close examination by regulators and the Canadian electricity industry.

**Standards Council of Canada**

[http://www.scc.ca/sites/default/files/publications/Smart-Grid-Report\\_FINAL\\_OCT2\\_EN.pdf](http://www.scc.ca/sites/default/files/publications/Smart-Grid-Report_FINAL_OCT2_EN.pdf)

# Safety - FIRES - Culpability

Written by [theenergyfix](#) on October 5, 2012

- Underwriters Lab (UL) has recently been engaged to do safety testing on these smart meters by some utilities. While presently there is not a specific meter safety test protocol by UL, they are modeling these tests after the electric vehicle charging specification (UL 2735).

**Testing Starts AFTER Houses Burn Down!**

**They admit they don't have a  
safety test for the Meters**

<http://bcfreedom.wordpress.com/2012/10/10/smoking-gun-did-utilities-and-meter-makers-admit-responsibility-for-fires/>

# 2012 – Home Insurance Better Check

**Will Smart Meters invalidate your  
homeowners insurance?**

**They are neither UL (Underwriters  
Laboratory) tested nor CSA (Canadian  
Standards Association) approved.**

**<http://beforeitsnews.com/energy/2012/03/smart-meters-can-invalidate-your-homeowners-insurance-1839410.html>**

# Complaints with Smart Meters

Radiofrequency (RF) interference causing malfunctioning of wireless equipment, such as Wi-Fi and Netflix (7) \*RF interference **causing malfunctioning of medical & critical-care equipment i.e., pacemakers, wireless insulin pumps, pain pumps, ventilators & baby monitors;**

\*RF spikes causing appliances to break or malfunction, such as garage doors not opening or closing properly; excessive billing & inaccurate readings \*Interception of personal identity information (electronic eavesdropping)

\*Safety risks: Electrical fires and explosions.



# "How Smart Meters May Cause Autism and Cancer." July 2011

The duration of the radiation seems to be more important than its strength, with **the effects being cumulative** as more and more cells are damaged (2005) also the effect on DNA damage was still greater if the M/W were pulsed. **Smart meters, operate 24/7 and radiate pulsed M/W intermittently, can therefore be expected to be particularly harmful to DNA**. Dr. Andrew Goldsworthy, Lecturer in Biology (retired), Imperial College London



# "Open Letter on Smart Meters"

**"It should be noted that we are not the only species at jeopardy, practically all animals and plants may be at stake . . . the inauguration of **smart meters** with grudging and involuntary exposure of millions to billions of human beings to **pulsed microwave radiation** should immediately be prohibited..."**

Olle Johansson, PhD., Karolinska Institute, Sweden. <http://sunroomdesk.com/wp-content/uploads/2011/01/Olle-Johansson-The-California-Council-on-Science-and-Technology-response.pdf>

# 2012 - Smart Meters Unethical Experiment

Dr. Eilhu Richter, M.D., an associate professor at Hebrew University-Hadassah, has said, *“Were these population-wide exposures to smart meters to be a part of a project carried out in a medical setting, to test the risks and benefits of a new technology on human health and well-being, it would be rejected ... as an unethical exercise in human experimentation.”*

<http://www.wnd.com/2012/12/health-hazards-linked-to-utility-meters/>

# Home Invasion – Security

**CRIMINALS no longer need to stake out a home or a business to monitor the inhabitants' comings and goings. Now they can simply pick up wireless signals broadcast by the building's utility meters.**

<http://www.newscientist.com/article/mg21628875.300-wireless-meters-tell-snoopers-when-you-are-not-home.html>

# Is This Democracy?

**"Who can support that the constitution, any constitution of any country, should allow installations to take place (*such as Smart Meters*) against the rights for the health of citizens?"**

Professor Lukas H. Margaritis, National and Kapodistrian,  
University of Athens, Faculty of Biology, Department of Cell Biology  
& Biophysics, Electromagnetic Biology Laboratory

<http://www.ccst.us/projects/smart2/documents/letter20.pdf>.

# 2012 - Smart Meters - a Concern to the Population

Organisations which have given strong cautions about all technology that emit radiation similar to that of smart meters

include *the **Council of Europe**, the European Environmental Agency, **UK Trade Union Congress**, the International Commission for Electromagnetic safety and the **Russian Commission for Electromagnetic Safety**.*

<http://www.thecourier.com.au/story/523757/smart-meters-a-concern-to-the-population/?cs=61>

# Plummeting House Prices

Due to high ELF and EMF

*In addition to long-term health concerns, buying a house or living in a house with high fields will be an economic disaster. In a few years, when power line radiation is as well known as asbestos and radon, a house near power lines or with high fields will be practically impossible to sell. Business Week writes that there are over 100 lawsuits regarding power lines and property devaluation.*

<http://www.concernedcitizensmontana.net/Publish/Appraisal.groupone.pdf>

# A Looming Health Crisis

**“When you put all the science together, we come to the irrefutable conclusion that there’s a major health crisis coming, probably already underway,” warns Dr. George Carlo. “Not just cancer, but also learning disabilities, attention deficit disorder, autism, Alzheimer’s, Parkinson’s, and psychological and behavioral problems—all mediated by the same mechanism. That’s why we’re so worried. Time is running out. When you put the pieces of the puzzle together, it’s such a wide ranging problem. It’s unlike anything we’ve ever seen before.”**

# 2012 - Health Experts from 20 Countries Caution About Smart Meter Risks

**54 experts (including Yury Grigoriev, Chair of the Russian National Committee on Non-Ionizing Radiation Protection) say children may particularly be at risk of developing EHS or diseases such as cancer from overexposure to radio frequency M/W emitted by smart meters and other wireless devices. Altogether these experts have authored hundreds of peer-reviewed studies on the health effects of EMF.**



# SMART METERS

## Is the pendulum turning?

**SANTA CRUZ, CA - Just as PG&E enters the final phase of its deployment of wireless “Smart” Meters in California, it has reversed course and is quietly beginning to replace the ‘smart’ meters of those reporting health impacts with the old trusty analog version.**

[Tuesday, November 1st 2011 info@stopsmartmeters.org](mailto:info@stopsmartmeters.org)

# Opposition to Smart Meters

**B.C. – 59 Municipalities & UBCM** want moratorium.

**Quebec** – Allows Opt Out (for \$\$\$\$)

**Holland** – Voluntary

**California** - 57 **Municipalities**, of which 11 have passed ordinances making installations illegal, of which 2 proclaimed them criminal!

**Connecticut** regulators denied CL&P to install SMs as costs can't be justified

[Wikipedia\) Nordic Countries – SMs](#)

# National Security

**No communications technology is more vulnerable or more defenseless than a wireless radio system –**

## **Enemies:**

**Solar Storms, Solar Flares, Severe Lightning Storms, ECM and/or signal jamming by malcontents, organized criminals, terrorists, hostile nations, electronic warfare weapons, e.g., HAARP and EMPs, cyber attacks, etc.**

# **SOLAR STORMS: NASA WARNING**

**NASA Warns of coming “Super Solar Storms – could wipe out entire U.S. power grid and end Life as we know it. Transformers will short circuit and burn out; satellites will be destroyed. This could be worse than the 1859 humungous storm. Will set country back for months to years”**

<http://www.youtube.com/watch?v=WeAocYXKjOI>

# CYBERSECURITY

(2011)

## Defence Secretary, Leon Panetta

Foreign-based hackers using servers in China hacked into **Treasury Board and Department of Finance** systems looking for personal and financial information. Panetta even admitted that hackers have been able to **crack American government systems** and denial of service attacks have taken down websites for a number of U.S. government agencies, **including the FBI.**

[www2.canada.com/topics/news/story.html?id=7383296](http://www2.canada.com/topics/news/story.html?id=7383296)

# Cyber-Security–Calgary

(09/28/2012)

CBC News has confirmed a recent cyber-attack successfully breached a Calgary-based supplier of control systems for electrical power grids, municipal water systems, public transit operations, and most of Canada's major oil and gas pipelines. (Kacper Pempel/Reuters)

<http://www.cbc.ca/news/technology/story/2012/09/28/cyber-attacks-canada-infrastructure.html>

# CyberSecurity

(Sept. 2012)

**Telvent (Spain), maker of an industrial control system designed to be used with so-called smart grid networks disclosed to customers last week that hackers had breached its network and accessed project files related to a control system used in portions of the electrical grid.**

**Owned by Schneider Electric (France), Telvent told customers in a letter that on Sept. 10 it learned of the breach into its network. The attackers installed malicious software on the network and also accessed project files for its OASyS SCADA system, according to KrebsOnSecurity, which first reported the breach.**

<http://www.wired.com/threatlevel/2012/09/scada-vendor-telvent-hacked/>

# **U.S. Defense Secretary Leon Panetta** (Oct. 12, 2012)

**“An aggressor nation or extremist group could gain control of critical switches and derail passenger trains, or trains loaded with lethal chemicals. They could contaminate the water supply in major cities, or **shut down the power grid across large parts of the country.**,” he said.**

<http://www.washingtonguardian.com/panettas-cyber-stunner>



# Former U.S. C.I.A. Director James Woolsey (Oct 13, 2012)

**“The utilities don’t want to talk about this but 17 of our (USA’s) 18 national critical infrastructure sectors depend on electricity, including our power grid and all but one of our military bases. If the grid goes down – we don’t even want to think about it. We’re so vulnerable to cyberattack and any number of other threats.”**

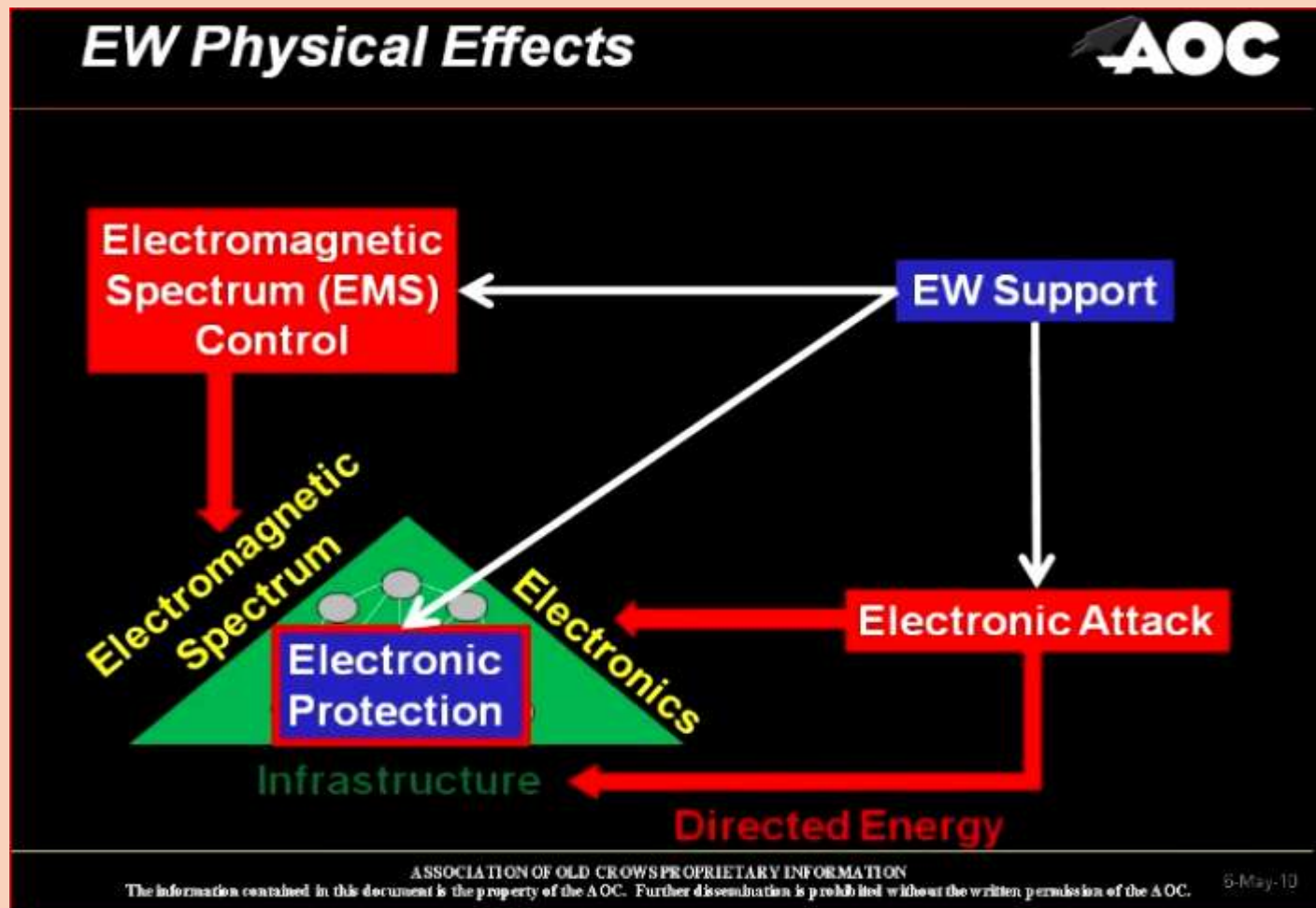
<http://www.wtop.com/41/2935749/Ex-CIA-director-Recent-outages-a-taste-of-nationwide-threat>

# 2012 - Cyber Attack Bigger Threat Than Sandy – Hackers are Constantly Trying to take down the Grid



<http://www.wkyc.com/news/article/267320/45/Investigator-Cyber-attack-bigger-threat-than-Sandy>

# Electronic Warfare



# EW Activities

## EW Activities



The purpose of EW is to deny the opponent an advantage in the EM ops domain and ensure friendly use of the EM ops domain

EM countermeasures  
EM compatibility  
EM deception  
EM hardening  
EM interference  
EM intrusion  
EM jamming  
Electronic masking  
Directed Energy

EM threat avoidance  
Electronic probing  
Electronic reconnaissance  
Electronic intelligence  
Electronics security  
EW reprogramming  
Emission control  
Spectrum management  
War reserve modes

EA includes actions taken to prevent or reduce an enemy's effective use of the electromagnetic spectrum, such as jamming and electromagnetic deception, **and employment of weapons that use either electromagnetic or directed energy as their primary destructive mechanism** (lasers, radio frequency weapons, particle beams)

ASSOCIATION OF OLD CROWS PROPRIETARY INFORMATION

The information contained in this document is the property of the AOC. Further dissemination is prohibited without the written permission of the AOC.

6-May-10

# Fundamental EW Principles

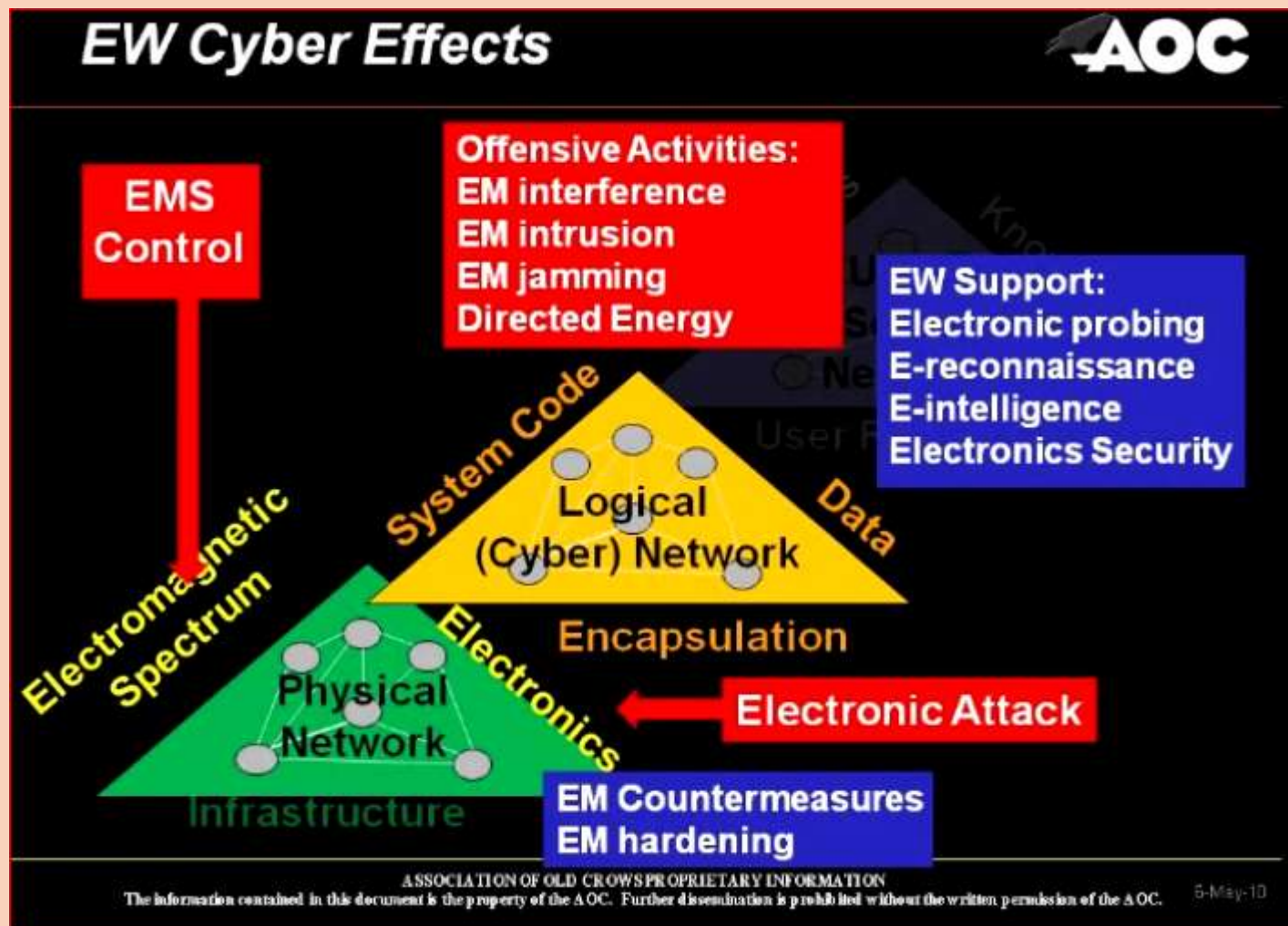
## *Fundamental EW Principles*



- The Electromagnetic Spectrum (EMS) provides the **maneuver space** that allows unified action across all warfighting domains.
- Electronic Warfare creates physical, informational, and cognitive effects through the use of **electronic systems** operating in the **electromagnetic environment** (EME) which create, control, exchange, and employ electromagnetic energy across the EMS.
- Electronic Warfare consists of **four elements**: Electronic Attack (EA), Electronic Protect (EP), Electronic Warfare Support (ES) and EMS Control (EMC).
- Electronic Warfare controls and exploits use of the EMS to enable friendly **freedom of action in all domains** (to include cyberspace) and to deny freedom of action to adversaries.
- EW is conducted in the electromagnetic environment while **cyber ops** are conducted in the information environment.
- EW can be employed in support of **information operations** (IO)



# EW Cyber Effects



# EW Weapon– USA “CHAMP”

**High Powered Advanced Missile  
Counter Electronics Weapon, **can knock  
out a country's entire electric grid!****

**Non-Lethal: No harm to people or  
structures.**

**Boeing – US Air Force – Raytheon**

[www.boeing.com/Features/2012/10/bds\\_champ\\_10-22-12.html](http://www.boeing.com/Features/2012/10/bds_champ_10-22-12.html)

# EW Weapon – USA

## “HARM”

**The anti-radiation missile is a smokeless, rocket-propelled missile that destroys radar-equipped defense systems**

The AGM-88 HARM (High-speed anti-radiation missile) is used throughout the Air Force for suppressing surface-to-air radar warning systems.

Anti-radiation missiles help neutralize hostile airspaces and take out the enemy's ability to defend itself in advance.



Raytheon

The Air Force said, "Coalition forces in Operation Desert Storm operated 'at will' over Iraq and Kuwait after gaining control of the EM spectrum early in the war."

Boeing has test-flown a nonlethal missile that fries electronics while minimizing collateral damage (like civilian deaths). You can read about CHAMP [here](#).

[www.ausairpower.net/API-AGM-88-HARM.html](http://www.ausairpower.net/API-AGM-88-HARM.html)



# Electronic Warfare – USA

## “Heat Ray”

### America's Scariest Electronic Weapons

Robert Johnson and Geoffrey Ingersoll | Sep. 14, 2012, 9:04 PM | 🔥 292,603 | 💬 35

👍 Recommend 574    🌐 Share 39    🐦 Tweet 113    ➕ 13    ✉ Email    More

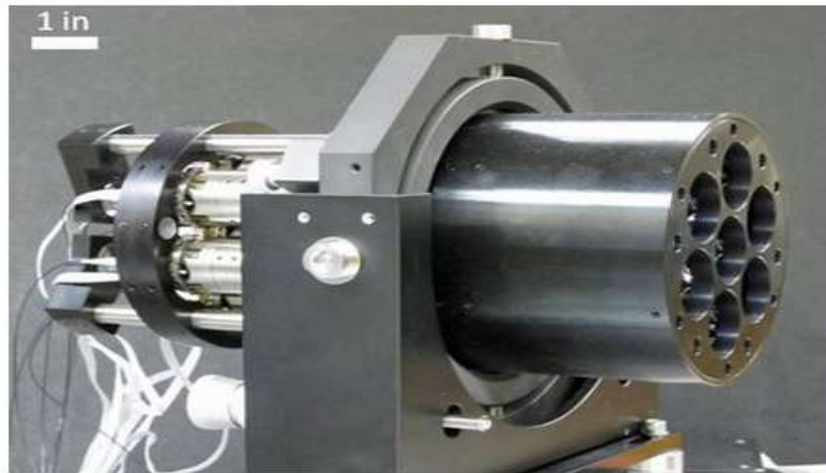
Controlling the electromagnetic (EM) spectrum is a major asset in military operations.

The Marines recently demonstrated their painful “heat ray,” a weapon that blasts intruders with a wave beam that targets skin and makes victims feel like they’ve stepped in front of a blazing oven, but without killing them.

[See the gear >](#)

It doesn’t cause irreversible damage, but will make someone instinctively back off.

Modern weapons systems employ radio, radar, infrared, optical, ultraviolet, electro-optical, and laser technologies.



DARPA

[www.businessinsider.com/electronic-warfare-weapons-2012...](http://www.businessinsider.com/electronic-warfare-weapons-2012...)

# Electronic Warfare – USA

## “Heat Ray”

### The Marine Corps "Heat Ray" raises the temperature of skin by 130 degrees

But it won't kill you. The Active Denial System (ADS) creates an intense heated sensation lasting 1-2 seconds and is caused by a radio frequency wave, not radiation or microwave.



**Sgt. Maj. of the USMC Micheal P. Barrett ran for it after feeling the ADS.**  
*Marines/Daniel Wetzel*

"You're not going to see it, you're not going to hear

it, you're not going to smell it. You're going to feel it," said director of the Joint Non-Lethal Weapons Directorate, Marine Col. Tracy Tafolla.

The 95 GHz millimeter wave has a range of up to 1000 meters, or 7 football fields. The directed-energy beam only penetrates 1/64th of an inch into the skin.

As a nonlethal weapon, it can be used for crowd control or determining hostile intent before engaging with lethal weapons. ADS can buy life-saving time.

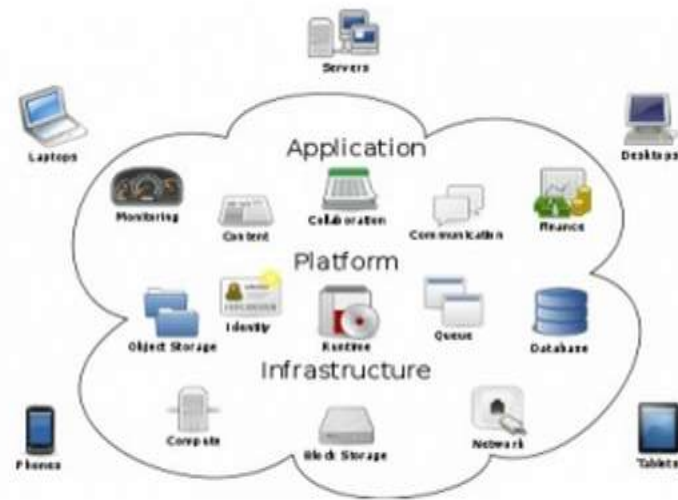
# 2012 - Cloud Technology

## *Insane* – National Security

### Silver Spring Launches Cloud Service to Share Smart Grid Data

The latest smart grid cloud brings Silver Spring's smart grid data to more people in the utility besides "power users."

JEFF ST. JOHN: AUGUST 1, 2012



<https://www.greentechmedia.com/articles/read/silver-spring-launches-cloud-service-to-share-smart-grid-data/>

# CHINA

## Electronic Warfare & Cyber Warfare

The PLA (peoples' liberation army) **has developed a doctrine of *"Integrated Network Electronic Warfare," similar to the Soviet concept of Radio Electronic Combat, with the goal of degrading the enemy through EW, cyber, and space warfare before a shot is fired***. The Chinese hacking threat is so common that the security industry has a new euphemism for the country, an "Advanced Persistent Threat."

[http://www.iwp.edu/news\\_publications/detail/colonel-larry-wortzel-discusses-military-strategy-and-china-today](http://www.iwp.edu/news_publications/detail/colonel-larry-wortzel-discusses-military-strategy-and-china-today)

# Non-Industry Science Says,

Referring to the proliferation of wireless technology:

- 1) *The BioInitiative Report – 2012 states, in part: “... radiofrequency should be classified as a human carcinogen ... existing FCC/IEE and ICNIRP .... are not adequate to protect public health.”*
- 2) **The International Doctors’ Appeal (more than 1,000 doctors) states: “This is the greatest biomedical experiment in human history ever.”**
- 3) *Dr. Robert O. Becker, 2-time Nobel Nominee said: “The greatest polluting element in Earth’s environment is the proliferation of EMF.”*

# Non-industry Science (Cont'd)

- 4) Prof. Yuriy Grigoriev, Chairman of RNCNIRP said: “Man conquered the Black Plague, but now he’s created EMF pollution”
- 5) Dr. Sam Milham (first scientist to identify electricity as a health threat) says: “*We may be facing a looming epidemic of morbidity & mortality.*”
- 6) The Council of Europe said: “The need is to protect people from EMR, particularly pregnant women, embryos and children”

# Non-industry Science (Cont'd)

- 7) *“Never before has humankind been exposed to such high amounts of this very disruptive energy, and effects are cumulative.”  
Dr. Andrew Weill, leading health expert.*
- 8) *“...there is no safe threshold level. The only safe exposure level is zero,” Dr. Neil Cherry.*
- 9) *In 2010, Canada’s National Research Council said: “...a new biologically based guideline is needed, instead of the dangerous, outdated thermal guidelines.”*



# Non-industry Science (Cont'd)

- 10) In 2010, the U.S. EPA publicly acknowledged that electromagnetic pollution is a serious threat to health***
- 11) In 2012 Council of Europe called for ban on cell phones & Wi-Fi in all schools.***
- 12) Both the E.U. and Council of Europe said: "...the need is to protect citizens from EMR, particularly "pregnant women, newborn babies and children."***



# Non-Industry Science (Cont'd)

- 13) *The 2011 Seletun Scientific Panel says:  
“Global population is at risk. Reduce  
Exposure Limits 1,000 to 10,000 times.***
- 14) In 2012, Dr. Annie Sasco, Ph.D. said:  
“...there is concrete evidence cell  
phones & Wi-Fi cause cancer in  
humans.**
- 15) *“...exposure to microwave and EMF is  
significantly harmful to all health and  
life itself.” Dr. Dietrich Klinghardt.***

# Non-Industry Science (Cont'd)

- 16) *Dr. Devra Davis, Ph.D. Nobel co-Laureate: “All wireless technologies impact our lives and harm our health.” (2012)*
- 17) *Lloyd’s of London and Swiss G.E. won’t insure against health claims for chronic, long term, low-level radiation.*
- 18) *Dr. Magda Havas, Ph.D.: “910 MHz and 2.45 GHz are the most lethal microwave frequencies!” (Smart Meter frequencies)*

# Non-industry Science (Cont'd)

- 19) *In 2010, U.S. President Barack Obama's Cancer Advisory Panel, referring to cell phones & other wireless technologies, recommended Precautionary approach.*
- 20) **Dr. George Carlo: "... there's a major health crisis coming, probably already underway."**

**Dishonesty** – “... one who lacks native integrity; one predisposed to lie, cheat. **Not worthy of trust or belief ...**”

**Corruption** – “... **guilty of dishonest practices**, as bribery; crooked: infected, tainted, decayed, putrid ...”

**Collusion** – “... **a secret agreement, especially for fraudulent purposes; conspiracy ...**”

# EMR - The Nuremberg Code

***Says, in essence:*** It is essential that a person being experimented upon must give voluntary consent; be free from force, fraud, deceit, duress or coercion; have sufficient knowledge of the subject matter to enable him/her to make an informed decision – which obliges the experimenter to adequately explain the duration and purpose of the experiment, as well as the method and means by (Cont'd)

# EMR - Nuremberg Code (Cont'd)

**which it is to be conducted , all inconveniences and hazards reasonable to be expected; and the effects upon one's health or person which may possibly come from his/her participation in the experiment. It is the responsibility of the experimenter to ensure that all 'participants' are aware of and fully understand the risks involved.**

[U.S.National Institutes of Health. "Nuremberg Code". Retrieved on June 20, 2012.](#)

# EMR = GENOCIDE

**2012** “This industry and those parts of governments which are encouraging them will be responsible for **killing more people than all those killed in the entire 2<sup>nd</sup> World War!** This will be the worst genocide this planet has ever known – **not just people, but plants and animals.** The U.K, U.S., Canadian and Australian governments are lying to the public to protect themselves against lawsuits and to make money for **industry!”**

**[Dr. Barrie Trower. www.ICAAT.org](http://www.ICAAT.org)**

# **Conclusion**

**Scientific evidence leaves no doubt that EMR poses the biggest single threat to humans and all other life forms in Canada's entire history and, in the case of Smart Meters, to our personal privacy and safety, and to our country's National Security! Governments must be made to divorce themselves from industry and instead protect the public. But this will not happen unless**

**YOU STAND UP and SPEAK OUT!**



# Reference Web Sites

<http://vimeo.com/54189727>

[www.citizensforsafetechnology.org](http://www.citizensforsafetechnology.org)

[www.stopsmartmeters.bc.ca](http://www.stopsmartmeters.bc.ca)

[www.rense.com/general71/repe.htm](http://www.rense.com/general71/repe.htm)

[www.magdahavas.org](http://www.magdahavas.org)

[Google: "Dr. David O.Carpenter"](#)

[Google: "Dr. Andrew Michrowski"](#)

[Google: "Microwave Warfare - Barrie Trower"](#)

[www.mocrowavenews.com](http://www.mocrowavenews.com)

[www.sageassociates.net](http://www.sageassociates.net)

[Google: Heinrich Klinghardt](#)

[Google: Dr. Devra Davis, Ph.D.](#)

# Chicken Wire – Your Defence?

**Physicists call it a "Faraday cage" -- a metal structure that impedes electricity and waves -- because the fencing is the perfect size to catch waves generated by 2.4-gigahertz Wi-Fi networks. "It turns out that chicken wire is almost perfectly the right wavelength of a Wi-Fi signal," says Karl Garcia, who sets up Google Inc.'s free Wi-Fi efforts. "It acts just like a solid piece of metal.**

**<http://online.wsj.com/article/SB126221116097210861.html>**

# SMART METER MITIGATION

## SHIELDING MATERIALS

**Inner Wall Shielding**  
13 - 23 dB Attenuation



**Bed Shielding Canopies**  
10 – 44 dB



**Shielding Kits**



**Microwave Shielding Fabric**  
10 - 44 dB Attenuation



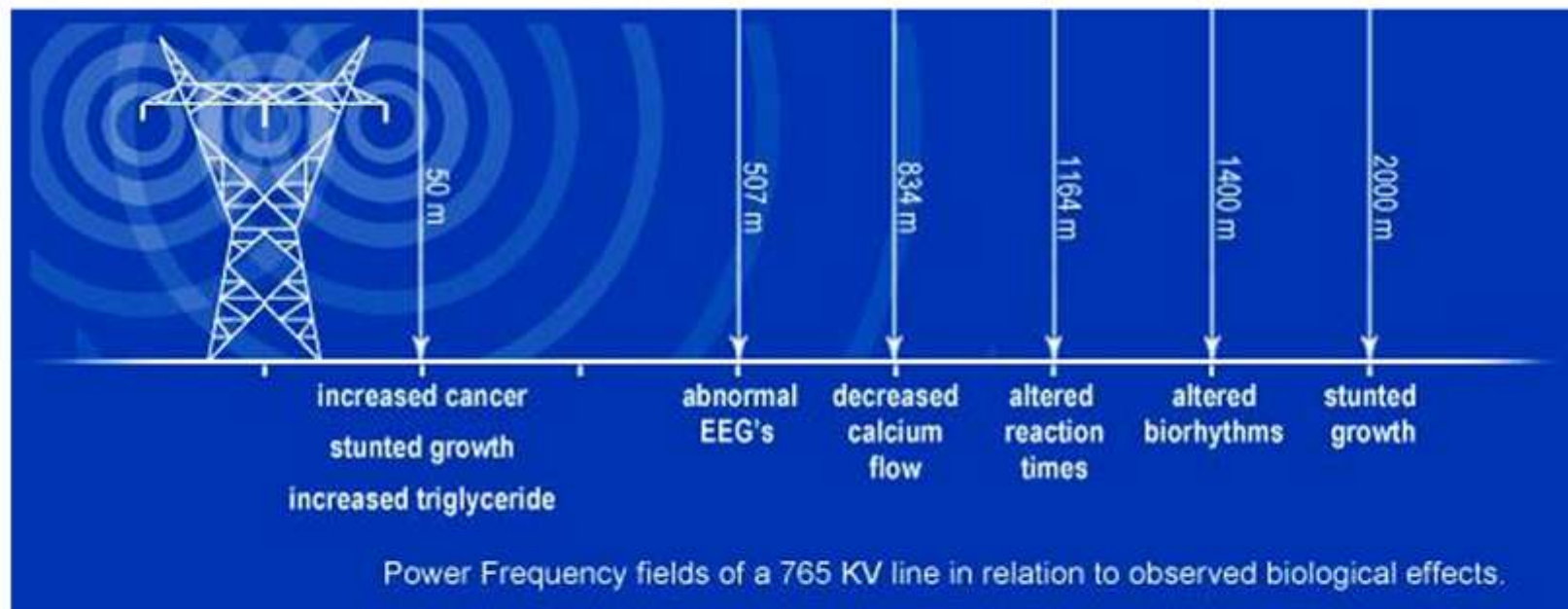
**Shielding Paint**  
35 dB Attenuation



**Shielding Window Foil**  
14 - 33 dB Attenuation



# 2012 - Class 2B (“Possible”) Carcinogen



Safe Living Distance To Power Lines?

# 2012 – Class 2B (“Possible”) Carcinogen



# Electric & Magnetic Fields

An **Electric Field** may be created by an electrical appliance (i.e., its cord) if it is plugged into an electrical outlet even if the appliance is NOT switched ON. When the appliance is switched ON and a current actually flows through it, the appliance (and its cord) will generate a **MAGNETIC FIELD** as well as an electric field. (A magnetic field is always generated when an alternating electrical current flows & is the more dangerous). <http://www.emwatch.com/EMF%20Explanations.htm>

# Magnetic Fields

**Milligauss is a measure of magnetic fields. Two milligauss have been linked with a tripling of leukemia in children and three milligauss with a quadrupling of leukemia. Power lines create these fields according to how much current they carry.**

<http://www.safelevel.com/page10/page10.html>



# Magnetic Fields (ELF)

## From Home Appliances

**Typical Magnetic Field Levels from Some Common Mains Appliances in the Home**

	Magnetic Field (microteslas)	
	Close to appliances	1 metre away
Vacuum cleaner	800	2
TV, Washing Machine, Microwave	50	0.2
Bedside Clock	50	0.02
Fridge	2	0.01



# ELF Radiation From Power Lines

## Sample Power line measurements (milligauss)

Power Line Type		EMF in milligauss at distance			
kiloVolts	Usage	15m/50'	30m/100'	60m/200'	90m/300'
115 kV	Avg	7	2	0.4	0.2
115 kV	Peak	14	4	0.9	0.4
230 kV	Avg	20	7	1.8	0.8
230 kV	Peak	40	15	3.6	1.6
500 kV	Avg	29	13	3.2	1.4
500 kV	Peak	62	27	6.7	3.0

# Sample EMF Values (mG) for ELF/VLF sources

Electrical	EMF in milligauss at distance			
Equipment/Appliance	15cm/6"	30cm/1'	60cm/2'	1.2m/4'
Air conditioner	3	1	0	0
Baby monitor	6	1	0	0
Battery charger	30	3	0	0
Blender	70	10	2	0
Can opener	600	150	20	2
Cellphone (VLF only) Contact:20mG	5	2	0	0
Clock (analogue)	15	2	0	0
Clock (digital)	6	1	0	0
Clothes dryer	3	2	0	0
Coffee maker	7	0	0	0

[http://www.emwatch.com/Typical\\_mG.htm](http://www.emwatch.com/Typical_mG.htm)

# **1990 – EPA Says Power Line EMF Probably Causes Cancer**

**A 367-page document: "Evaluation of the Potential Carcinogenicity of EMF" came to light in 1990, when someone in EPA leaked a draft version of it to Louis Slesin, editor of an influential newsletter called Microwave News.**

**Chief among the conclusions was one specifying that power line EMF should be classified as a "probable human carcinogen." William Farland, then-director of the EPA's Office of Health and Environmental Assessment ordered this conclusion deleted from the report.**

<http://bizgenerationnetwork.blogspot.ca/2012/07/lynas-cancer-and-you.html>

# **1990 – Electric Blankets Cause Brain Tumors in Children**

**In 1990, The American Journal of Epidemiology published a study on the use of electric blankets which demonstrated "a quadrupling in the risk of brain tumors among children whose mothers slept under electric blankets during the first trimester of pregnancy."**

**[http://www.think-aboutit.com/energy/pwr\\_line.htm](http://www.think-aboutit.com/energy/pwr_line.htm)**

# 2001 – EMF and Breast Cancer

Dr. Masami Ishido and colleagues at Japan's National Institute for Environmental Studies showed that breast cancer cells treated with melatonin would resume growing when exposed to power-frequency EMF. Dr. Ishido found indications that the effect was even stronger at the lower EMF dose than the higher one. It is now known that melatonin suppression occurs at frequencies not far above 60Hz!

[Electropollution, Hormones and Cancer Aug-Sept 2007](#)

# 2010 Non-thermal Effects between EMF and Living Things

The scientific knowledge available today regarding EMF remains limited. Nevertheless, on the basis of recent epidemiological studies, and while awaiting new experimental data, it is advisable to limit exposure to EMF as much as possible. This is especially true for children and adolescents, the most vulnerable segments of the population, and has been recommended by both the Swedish and UK health authorities.

National Institute for the Study and Control of Cancer & Environmental Diseases" Bernardino Ramazzini" Bologna Italy.

# **ELF, EMF: Trades Get 6X More Breast Cancers**

**A study, conducted by the Fred Hutchinson Cancer Research Center in Seattle, WA. confirmed that telephone linemen, electricians and electric-power workmen are developing breast cancer at six times the expected rate.**

<http://guwave.com/EMF-Pollution.html>

# **EMR Suppresses Melatonin**

**Produced by the Pineal Gland, Melatonin is a powerful cancer-fighting hormone produced in the body about 90 minutes after we fall asleep. Sleeping in a room surrounded by our favourite devices – cordless phone, cell phone, digital clock, CD/radio player, computer and TV – can seriously suppress our nightly melatonin production.**

**“Electropollution, Hormones and Cancer” [www.nexusmagazine.com](http://www.nexusmagazine.com)**

**Aug-Sept.2007**



# Recommended ELF Guidelines

For 50/60 Hz EMF the recommended initial guideline is 1 Mg, A maximum limit value of 0.2 mG is recommended for the school environment. The desirable level in homes, schools and workplaces is 0.1 mG, the “Excellent” category. The 0.2mG level is in the “Good” category. People should aim to live in the “Good” to “Excellent” categories. <http://lifeenergies.com/he-emr/>

# **2012 - Cell Phone Surveillance**

**SUNDAY, SEPTEMBER 23, 2012**

**Everyone who Attended Occupy Wall Street with a cell phone had their Identity logged. Private investigator Steven Rambam reports: One of the biggest changes is the ability to track your physical location. I'm sorry I came in at the end of the previous talk. I heard them talk about surveying cell phones with a drone, in a wide area -- this is something that is done routinely now. I can tell you that everybody that attended an Occupy Wall Street protest, and didn't turn their cell phone off, the identity of that cell phone has been logged, and everybody who was at that demonstration, whether they were arrested, not arrested, their photos were ID'd. This is routine.**