



August 15, 2014

Att: Dr. Hildegard Staninger  
Ph.D., RIET-1  
Industrial Toxicologist  
IH and Doctor of Integrative Medicine

Re: Radio Interview on August 20, 2014

Hello Dr. Staninger:

I want to thank you for the opportunity to be on your important radio program on wireless exposure. It is critically important your audience understand I am not lobbying an opinion when it comes to wireless exposure. I am a government certified electrical professional with national recognized **government** credentials. The point is we are the science behind policy and policy is based on science, not the other way around.

What has happened with RF EMF exposure deployment is horrific and needs clarification at all levels. As a consulting manager leading teams for a wide scope of industry and Adjunct Faculty for continuing medical education, we had to spend 1000s of hours investigating how the deployment of highly penetrating EMFs was allowed to happen without notice or qualification at any level.

As electrical and building engineering professionals it takes years for code changes because of all the input required. Our jobs as electrical or building engineering professionals is to contact our authority having jurisdiction (municipal, provincial and federal governments) with questions or clarification. It was alarming that all levels of government were not responding in their capacity. It required extensive investigation to find out why they were not responding.

It was during the FortisBC application to the BCUC for smart meter installation that we found out that the BC Legislature allowed BC Hydro to bypass **ALL** regulatory process to install wireless smart meters and the required smart grid. I cross examined FortisBC "experts" expecting science qualifying the safety of the RF EMFs as applied and it didn't happen. Under direct cross examination by me, their "experts" confirmed critical science was not in their reporting on risk assessment or in exposure codes. The bottom line is that Exponent's Report on safety was scientifically baseless.

You can **NOT** leave out electrical information and there is no exception. The Specific Absorption Rate used by Canada, the FCC and other countries for limits of human exposure based on water molecules heating is baseless science but an admission of guilt that electromagnetic induction is happening.

Exposure codes admit they are inducing currents into people but not enough to heat water molecules. An admission of inducing currents means cellular voltages have increased and the higher the power density, the higher the voltages.

Ohm's law is  $E = I \times R$  which means Volts = current x resistance. Increase current and you increase voltage. When a biologist was asked what happens when you increase cellular voltage and they said "they die".

That is separate of the inrush currents as the EMFs expand and collapse billions of times per second or the high speed oscillations billions of times per measurable second.

FortisBC engineer Mark Warren confirmed the utility will electromagnetically radiate 17,000 sq. Kms or 6564 sq. Miles to communicate with meters and that they did not nor will inform engineers or any professionals.

Think of all the applicable sciences of every atom and molecule in that blanket coverage area. Neither governments nor utilities cleared this with biologists, medicine, medical education, engineers, electrical professionals, municipalities, insurers, academia at any level, lawyers, unions, etc, etc. For governments, industry or utilities to move forward while human exposure codes admit causality and biological plausibility was missing has created unrealized serious global problems.

Causality linking EMFs to adverse health effects is an electrical mechanism. The SAR only considered the cell phone, smart meter and Wi-Fi devices as the end use device. The routers, antennas and blanket coverage was not incorporated or the applicable, extensive calculations would be there. As soon as you incorporate the EMF blanket hitting everything, you have causation that electromagnetic induction is happening.

As soon as you include the bio-electrical information into the electrical equation as well as the blanket coverage substantiating the EMFs are hitting people, you have biological plausibility.

The missing causal relationship linking EMFs to adverse health effects has been found and reported through due process including Canadian Parliament's Standing Committee on Health in 2010. The EMFs are now illegal as applied and lecture for CME credits at the University of Central Florida. It is now approved and accepted medical education.

The smart meter programs have required utilities to mass install meters. In order to achieve those objectives they used contractors not remotely qualified to touch those meter bases. Fires, electrical failure and power surges inside buildings are the reality. Here is media reporting on stopping the meter program. <http://globalnews.ca/news/1483134/saskpower-ordered-to-remove-all-smart-meters-in-the-province/>

The electrical reality is that all 105,000 buildings have to be inspected by qualified, insured professionals, meter bases need to be inspected by qualified electrical professionals and may need replacement. These meter bases and electrical equipment is very fragile as they have never been maintained.

BC Hydro as another example is mass installing 1.7 million meters and 1.7 million meter bases have to be re-inspected, repaired or replaced where applicable. The analog meter has to be re-installed and without any wireless function.

Here is news media in Alberta where insurers are addressing liability and keep in mind they were never informed unqualified people are causing these fires which brings liability to the utility. <http://medicinehatnews.com/news/local-news/2014/07/29/city-could-be-liable-for-smart-meter-fires/>

The SAR isn't applicable to any Building Code but is being used to bypass the jurisdictional authority of the municipalities except buildings will no longer comply with building code. That means no insurance, mortgage or occupancy. All affected municipalities will have to shut down their inspection departments, anything associated with those revenues and real estate sales across the board unless the buildings are an MRI Chamber.

Here is a document provided **at the request** of Washington State elected officials regarding safety of Wi-Fi in schools in Washington State. They heard causality being substantiated on a radio program and contacted us. <http://thermoguy.com/washington-state-department-of-health-responding-to-wi-fi-safety-concerns-in-our-schools/> The liability for over a million students, teachers, support staff, buildings and infrastructure will be 100s of billions of dollars.

Washing State elected officials contacted us this week on the City of Seattle looking for clarification on the safety of their smart meter program and the real energy savings. Seattle has already spent over 200 million dollars on their wireless program and 100% of it is a waste. Smart Meters will not address **ANY** energy waste. Here is a link to **evidence** at the British Columbia Utilities Commission website we provided to the in the FortisBC application for smart meters. It will show you thermal radiation images of the energy waste utilities and the smart meters are trying to address. The buildings shown in the images are FortisBC 's jurisdiction and their meter program will catch 0% of the energy problems. Topping that off is the 6564 sq. Mile smart grid creating an atmospheric heat sink that will undermine their climate change objectives. [http://www.bcuc.com/Documents/Proceedings/2012/DOC\\_32604\\_C19-6\\_WKCC-Submission-RDCK-Nelson-Creston\\_Suspension.pdf](http://www.bcuc.com/Documents/Proceedings/2012/DOC_32604_C19-6_WKCC-Submission-RDCK-Nelson-Creston_Suspension.pdf)

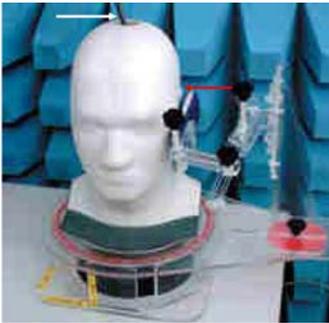
As Thermal Radiation Consultants(35 years) for a wide scope of industry, governments, medicine, medical education, fire services, insurers, military, etc, our work pertains to atoms and molecules of all matter above absolute zero. Absolute Zero is -273 deg. C or -459 deg. F.

Here are the first 2 lines of Wikipedia definition that can be seen at this link. [http://en.wikipedia.org/wiki/Thermal\\_radiation](http://en.wikipedia.org/wiki/Thermal_radiation)

“**Thermal radiation** is [electromagnetic radiation](#) generated by the [thermal motion](#) of [charged particles](#) in [matter](#). All matter with a [temperature](#) greater than [absolute zero](#) emits thermal radiation. When the temperature of the body is greater than absolute zero, interatomic collisions cause the [kinetic energy](#) of the atoms or molecules to change.”

When wireless industry refers to the language using thermal or non thermal, it is misleading information and reflects the Specific Absorption Rate limits in the discussion. Non thermal is absolute zero, anything above -459 deg. F is thermal and the basis for **all** sciences.

The strength of exposure codes in protecting the public is on page 9, paragraph 3 of Safety Code 6. **“The predominant health effect to be avoided is the unintentional stimulation of tissue as is the heat effect”** Intentional stimulation of tissue is medical imaging where people are put in an intended position of use and other parts of their body protected or workers in an RF EMF environments for short periods of time. [http://thermoguy.com/wp-content/uploads/Safety\\_Code\\_6.pdf](http://thermoguy.com/wp-content/uploads/Safety_Code_6.pdf)



To the left is an example of the “science” of SAR the world is using in exposure codes and basing health effects. If early sailors had used this type of science for navigation, they would have sailed and fallen off the end of the earth.

Can you see the brain, nerves, organs? The plastic head is filled with fluid and there is a temperature probe in the top of the head.

Utilities are stating that meters transmit a few times a day but admitted the grid is on 24/7 which means 24/7 radiation exposure for their coverage areas. Pacemakers are put in by health providers and told to stay out of an EMF. The smart grid will take the EMFs to the home and undermine the health authority. <http://thermoguy.com/emf-pacemaker/>

Governments were warned of the liability across the board but special interests has taken precedence over public and global safety. There are real reasons we wire the world and confine EMFs to insulated known conductors.

Sincerely,

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