



NEWSLETTER

January 2012

KSTI Investigation Reveals: Wi-Fi Radiation Levels in many KPRDSB Classrooms Exceed Radiation Levels Found Within 100 m of Large Cell Towers

In this first issue of our information Newsletter, the members of [Kawartha Safe Technology Initiative \(KSTI\)](http://tinyurl.com/7jshe4r) <http://tinyurl.com/7jshe4r> bring you an important update on the issue and concerns surrounding Wi-Fi in our local schools.

KSTI strongly opposed the planned implementation of Wi-Fi in schools since we first became aware of the plan in June 2010. Despite parental protests, and written warnings from medical experts, the KPR District School Board (KPR) forged ahead and installed Wi-Fi in all schools. KSTI members then made formal presentations to City Council regarding the proposed siting of cell towers (same type of radiation) near homes and schools and were well received by city councillors who demonstrated genuine concern for their constituents. More recently, KSTI presented to our local Peterborough Board of Health about the possible health concerns of EMF radiation exposure (Wi-Fi) on vulnerable schoolchildren. Board of Health members were provided with a [Reference List of over 180 Research Studies](http://tinyurl.com/72yhcb2) <http://tinyurl.com/72yhcb2> linking health effects to EMF radiation exposure.

CURRENT CONCERNS: A recent KSTI investigation has revealed that Wi-Fi radiation levels in many KPR classrooms exceed radiation levels recorded within 100m of large cell towers (see table on page 2). This is very concerning due to the fact that [numerous health studies](http://tinyurl.com/6vxltk9) <http://tinyurl.com/6vxltk9> indicate higher incidences of poor health in people who live within 400 m of a large cell tower.

The following page shows a table that compares radiation levels currently found in many KPR classrooms to radiation levels found near large cell towers in Peterborough and surrounding area.

Of note:

In 2007, Toronto adopted a [Prudent Avoidance Policy](http://tinyurl.com/73nht32) <http://tinyurl.com/73nht32> for the siting of cell towers in order to minimize EMF radiation levels in Toronto. This policy (which also applies to Wi-Fi) sets upper acceptable limits for EMF radiation levels that are 100X LOWER than Health Canada's Safety Code 6.

KSTI believes it is reasonable and prudent to expect that the School Boards and our City adopt the Toronto guidelines as their own. Certainly the citizens of Peterborough deserve the same level of protection as Torontonians. After all, our own Medical Officer of Health, Dr. Rosanna Pellizzari, was in agreement back in 2007 when she signed this Toronto policy. (It should be noted that many other countries have adopted similar and even stricter guidelines.)

Most Common Symptoms of EHS

Electromagnetic HyperSensitivity to wireless devices

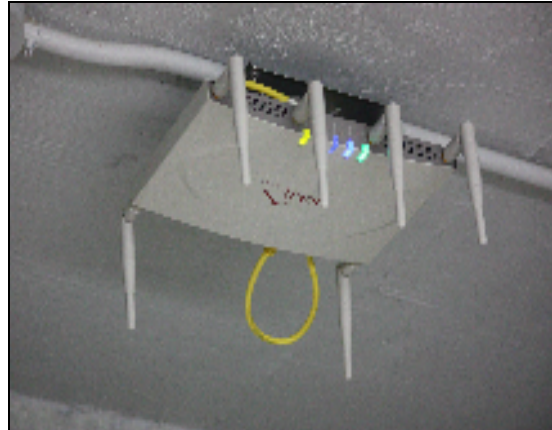
Symptoms can develop over time in sensitive individuals and include any of the following:

- headaches
- anxiety
- foggy thinking
- weakness
- heart palpitations
- rashes
- increase in allergies/asthma
- dizziness
- exhaustion
- attention deficit issues
- blood sugar fluctuations
- night sweats

Long-term effects may include cancer, DNA damage and reproductive disorders.

Comparing Levels of Electromagnetic Radiation

Cell Phone Tower Antennas and Wi-Fi Routers (Wireless Access Points) in KPR Schools



KSTI data collection reveals maximum radiation values at the following locations to be:

LOCATION	mV/m	W/m ²
Rural residential setting	7.6	0.000000152
200 m from a cell tower, inside a home	275	0.0002
100 m from a cell tower, outside	777	0.0016
Under a Wireless Router: 2600 uW/m ² * as shown on Global's 16:9 Program	990*	0.0026*
Inside KPR Classroom: Wi-Fi on; wireless computers not operating (KPR-posted values)	1,942 - 3,785	0.010 – 0.038
Toronto Prudent Avoidance Policy (2007) (cell tower and Wi-Fi emissions not to exceed these levels).	6,140	0.1
Inside KPR Classroom: Wi-Fi on; a single computer using Wi-Fi , streaming video**	5,137 – 8,238**	0.07 – 0.18**
Inside KPR classroom: multiple computers streaming video***	KPR not yet posted***	KPR not yet posted***

Note: The two columns represent the same data converted to different units of measurement. The KPR School Board posts values in **W/m²**, which requires the use of decimal values. This can give the false impression that values are low. The values in the **highlighted column** provide an easier method for comparing radiation levels. Values in this column are in **mV/m** (millivolts per metre).

* Industry tester on [Global TV's 16:9](#) 'Health Risks of Wi-Fi in Schools' calls this level "very high".

** Values taken from health proposal submitted to ETFO.

*** Levels will increase as additional computers access the internet wirelessly (up to 30 devices/classroom).

[Global's 16:9 Program](#): <http://tinyurl.com/7cwjz9j>

[Toronto Prudent Avoidance Policy \(2007\)](#): <http://tinyurl.com/73nht32>

MORE NEWS:

Aurora School Removes WiFi to Protect Children's Health

AURORA, ON, Jan. 19, 2012 /CNW/ - Another school has removed its Wifi, following warnings that the system emits potentially harmful microwave radiation.

"Schools are in the business of helping children, not hurting them so we shouldn't be taking chances," said Brenda Glashan, principal of the Aurora Montessori School, a private elementary school of 350 students north of Toronto.

Last May the World Health Organization warned that radiation from WiFi, cell phones and other wireless devices may cause cancer. Researchers have since reported that WiFi from laptop computers causes damage to human sperm.

Several Ontario private schools have since removed their wifi systems, but many public schools continue to install them despite the health warnings. Aurora Montessori school is known for its advanced computer lab, and now hardwires all of its internet connections.

Physician's Group (American Academy Of Environmental Medicine) Adopts Resolution Against Wireless Smart Meters January 23, 2012

The American Academy of Environmental Medicine has adopted a resolution calling for a halt to wireless smart meters. The full text of the resolution may be obtained on the AAEM website at: www.aemonline.org

This represents the first national physician's group to look in-depth at wireless health risks; and to advise the public and decision-makers about preventative public health actions that are necessary.

It is pertinent here because smart meters emit the same type of rf-emf radiation as Wi-Fi.

Catholic school parents: Levels identified in this document may also apply to the schools in the Peterborough Victoria Northumberland and Clarington Catholic District School Board. During the last school year, the same Meru Wi-Fi system used in KPR schools was installed in the Catholic Board schools. It is our understanding that **the exact same** industrial strength routers replaced home-style routers found previously in many PVNC classrooms. You may wish to clarify installation information and dates with your school board officials.

Tips on Living with Wi-Fi

If you are having difficulty sleeping, experience regular headaches, foggy thinking or heart palpitations, try the following:

- Do not place your wireless router near your sleeping quarters as it continuously emits pulsed radiation. Unplug your router when not in use - especially before bedtime.
- Remove your cordless phone from your bedroom. Better yet – replace your cordless phone with a corded phone.
- Make sure your bed is not against the wall directly opposite the location of your Smart Meter. Some meters pulse radiation every 60 seconds.

Please visit our website for more information: www.kawarthasafetechnology.org. It will provide updates on our continuing efforts to reduce and eliminate our children's daily (and cumulative) school exposure to electromagnetic radiation, now deemed by the World Health Organization to be a **Class 2b Possible Carcinogen**.

Yours in health and safety,

Kawartha Safe Technology Initiative

Play it safe. Plug it in.