

Statement by Dr. Anthony Miller to the *Hempfield* Pennsylvania School District Board, January 9, 2018

- My background
 - I am a physician and epidemiologist -currently Professor Emeritus at the Dalla Lana School of Public Health, University of Toronto
 - I have advised WHO IARC for several decades.
 - I founded and served for 15 years as Director of the Epidemiology Unit of the National Cancer Institute of Canada.
 - I served as Senior Epidemiologist, International Agency for Research on Cancer, and as Head of the Division of Cancer Epidemiology, German Cancer Research Centre
 - I have served as a consultant to the U.S. National Cancer Institute and the World Health Organization and am a Fellow of both the Royal College of Physicians & Surgeons of Canada and the Royal College of Physicians of the United Kingdom.
 - I am Senior Medical Advisor to Environmental Health Trust

- **We have a responsibility to future generations**

- My review of the evidence has convinced me that Radiofrequency Radiation is a human carcinogen:
 - This is based upon human studies in Sweden, France and the International Multicenter Interphone study which all show that prolonged exposure to cell phones more than doubles the risk of brain and some other cancers with those that begin using phones as teens having between 4 and 8 times more risk of glioma than non-users.
 - The National Toxicology Program (NTP) animal study was designed to test the basis for our government limits- asking the question *could non-thermal levels of radiofrequency radiation be harmful?*
 - This 25 million dollar study is the largest and most well-designed animal study ever done which ensured that the animals were not exposed to radiation levels that induced “thermal” changes in tissue.
 - The findings were that two types of cancers occurred in excess - the very same cancers found in excess in epidemiology studies of long-term cell phone users.
 - Another finding was DNA damage in the heart and brain of some of the exposed groups.
 - There are supporting studies showing the adverse effects of radiofrequency radiation on numerous biomarkers of cellular damage.

The combination of all this evidence does not just inform us about risks posed by cell phones but also to all exposures to radiofrequency radiation- including from cell towers. It is all the same type of radiation.

Statements that non-ionizing radiation cannot cause harm at low levels are simply false. Statements that there are no established health effects at levels below Federal Communications Commission (FCC) limits are misleading.

The FCC limits do not equate with safety. Safety is NOT assured when FCC limits are met.

The FCC limits were set by groups with strong industry connections made up of engineers and physicists, NOT medical professionals, public health experts and NOT toxicologists. I am one of over 236 scientists who have published on this issue and who are calling for more protective limits to RFR exposure.

- Thus, current government limits- FCC limits- are not protective of health. Harmful effects have been found at levels *much lower than FCC limits*.
 - *This is not just about cancer. Peer-reviewed published* scientific research has found headaches, damage to brain development, to reproductive systems.
- My opinion is that the weight of evidence supports the classification of radiofrequency radiation as a human carcinogen, implying hazard at all levels of exposure.
- My recommendation is to reduce exposure as much as possible, especially to children.

I urge you not to approve the siting of a cell tower within *Hempfield* Pennsylvania School District property.