

Are The Microwaves Killing the Insects, Frogs, and Birds? And Are We Next?

February 18th, 2008

By Paul Raymond Doyon

I live in Kunming City, Yunnan Province, The People's Republic of China. Yunnan Province is one of the cleanest and most pristine areas of China – and Kunming City is also called the City of Eternal Spring since the weather here is quite pleasant throughout the year. However, it might as well be called “The City of The Silent Spring.”

It is eerily odd but this city is strangely devoid of bugs - I see virtually no insects in this city – except for the occasional mosquito or the occasional cockroach. No ants, no spiders, no butterflies, no bees, no flies, no caterpillars, and so on down the line. I also see virtually no birds – I look up in the sky and there are no birds traversing it. When I go to bed at night I do not hear the sounds of crickets; and when I wake up in the morning I do not hear the chirping sound of birds.

And from what I can tell by reading media reports on the Internet, this phenomena of the sudden disappearance of life forms (insects, amphibians, fish, bats, birds, etc.) is happening all over the world. Just last year, the fact that there is (and has been) a worldwide die-off of bees was finally taken up by the media. The frogs have been dying for years – (although originally they were “mysteriously” showing up with deformities). Now, just at the beginning of January 2008 a Swedish journalist sent me a report by the Canadian Broadcasting Company (CBC) about the disappearance of tens of millions of birds across North America - <http://rawstory.com/rawreplay/?p=372>.

What the heck is going on? And when are we going to do something about this? This is pretty serious stuff. If all the insects, amphibians, and birds are disappearing, how much longer will it be until we mammals start disappearing? (After all, many of us are already getting sick. There are about 80 immune system disorders we didn't have 20 years ago.) Albert Einstein made some kind

of prediction that once the bees are gone, mankind would only have four or so more years left.

While the CBC report mentioned things like pesticides, urban sprawl, factory farming, deforestation, and so on, as possible causes, they conveniently failed to mention one other highly likely reason – Microwave Radiation from Cell Phone Antennas (which the CBC also conveniently installs on its own towers – a visible sign of CBC’s cushy relationship with the cell phone industry and perhaps the reason they failed to mention the latter possible – if not probable – reason for the Avian Decline).

While the media is failing to direct our attention at the possible real cause of this extremely ominous situation – possibly because of its lucrative and cushy relationships with the mobile phone industry – one agency of the United States government is taking a more sober interest into this grave problem. Under the auspices of the U.S. Fish and Wildlife Services (USFWS) and under the direction of Albert M. Manville II, Ph.D., Senior Wildlife Biologist, Division of Migratory Bird Management, the following report was issued on May 10th, 2007:

“U.S. Fish and Wildlife Service Concerns Over Potential Radiation Impacts of Cellular Communication Towers on Migratory Birds and Other Wildlife – Research Opportunities.”

<http://www.c-a-r-e.org/pdfs/May%202007%20Washington%20DC/Manville%20DC.pdf>

Now, you might be asking yourself, “Why would a government agency be interested in saving wildlife? Don’t they also have cushy relationships with industry and aren’t they more concerned with protecting corporate profits?” Well, this is the US Fish and Wildlife Service – not the DoD, FCC, FDA, FBI, or CIA. (We’ll just have to cross our fingers that someone in one of those other agencies doesn’t go and assassinate Dr. Manville). Dr. Manville does really seem to be concerned about saving wildlife. And moreover, as is stated in the report:

The USFWS [is] entrusted by Congress and required by statutes and regulations, to manage and protect migratory birds (and other fauna [ESA]) under authority of

- [the] Migratory Bird Treaty Act
- [the] Bald and Golden Eagle Protection Act, and
- [the] Endangered Species Act.

This report informs us of the overall declining bird population (up to 50 million a year), increasingly threatened bird species, and how this is related to the massive expansion in cellular communication and the exponential increase in the number of cell-phone towers blanketing our landscape. One study of particular interest in the report is the survey of two berry farms in similar habitats in western Massachusetts. At one farm, where there are no cell phone towers, there are abundant signs of wildlife: e.g. migrating and resident birds, bats, small and large mammals, and insects including bees. However, at the other farm with a cell-phone tower located adjacent to the berry patch, there are virtually no signs of wildlife: tracks, scat, feathers, etc. Here the berries on bush go uneaten by birds and insects – while the ripened berries that have fallen to the ground are going uneaten by animals: turkey, fox, and other wildlife.

According to a report published on May 29th, 2007, entitled “Phones & Vanishing Birds” - <http://www.i-sis.org.uk/MPVB.php> - by the Institute of Science in Society (ISIS):

The sparrows have disappeared completely from the cities at least four years ago in Britain, as mobile phones grew in popularity. Third generation (3G) mobile phones were introduced in 2003, and there were over 65 million users in the UK by the end of 2005, more phones than people. (ISIS 2007)

There is ample evidence to suggest that it is indeed long-term exposure to microwave radiation – especially from 3G GSM (Global System for Mobile Communications) digital-phone technology – that is killing the birds.

Scientists at the Research Institute for Nature and Forests in Brussels, Belgium, have produced the first evidence that mobile phone base stations are affecting the reproductive behaviour of wild sparrows. This finding comes as mobile phones are held suspect in the massive collapse of bee colonies all over the United States and Europe.

Fewer house sparrow males were seen at locations within relatively high electric field strengths of GSM base stations. (ISIS 2007)

Further evidence comes from researcher Alfonso Balmori in Spain:

Alfonso Balmori, a conservation biologist in Valladolid, Spain, reported a significantly lower number of white stork (*Ciconia ciconia*) fledglings in nests close to mobile phone transmitters compared to nests further away. (ISIS 2007)

Could the above also be related to the decrease in fertility found in humans living in advanced countries? (There are now numerous research studies supporting this hypothesis.)

Balmori also found difference in how the birds behaved close to the phone antennae. Young birds died from unknown causes, and bird couples frequently fought while constructing their nests. Sticks fell to the ground, and the couple failed to make any headway. Some nests were never completed and the storks remained passively in front of the antennae. (ISIS 2007)

One is here also reminded of SIDS (Sudden Infant Death Syndrome) and teenagers with ADD (Attention Deficit Disorder) – not to mention increases in violence.

The observations in urban sparrows and the white stork population suggest that microwave radiation interferes with reproductive behaviour and breeding success, which would have decimated the wild populations. But that's not the whole story.

Several million birds of 230 species die each year from collisions with telecommunications masts in the United States during migration. Accidents happen mainly in the night, in fog, or bad weather, when birds might be using the earth's magnetic field for navigation, and could be seriously disoriented by the microwave radiation from telecommunication masts. (ISIS 2007)

While the above studies have looked at the decline of urban house sparrows and white storks, it is more than likely that this microwave radiation is affecting other – if not all – bird species.

In the UK, where the allowed radiation level is 20 times higher than in Spain, a decline of several species of urban birds has occurred, coinciding with the increasing installation of mobile phone masts. (ISIS 2007)

Birds (and insects and other small animals) would naturally be the first to obviously be affected by this increase in ambient radiation since naturally they have smaller bodies and hence less flesh to be penetrated by exposure to microwaves.

Birds are good candidates as biological indicators for low-intensity electromagnetic radiation (EMR); they have thin skulls, their feathers can act as dielectric receptors of microwave radiation, many species use magnetic navigation, they are very mobile and possible psychosomatic effects are absent, as Everaert and Bauwens point out. (ISIS 2007)

Finally, chicken embryos exposed to microwave radiation from cell phones have shown both deformity and mortality.

Another important factor is that chicken embryos subjected to the radiation from a cell phone in the laboratory suffered much higher mortalities than non-exposed controls. Some years ago researchers in Russia showed that continuous exposure of the chick embryos during the 21 days of embryonic development resulted in 75 percent of the embryos dying, compared with 16 percent in the controls. (ISIS 2007)

The evidence keeps piling up as more and more studies appear that show that this microwave radiation is indeed insidiously killing – (not only ourselves but also) - our precious birds, amphibians, and insects. Many peer-reviewed studies relating to the destruction of birds, animals, and plants by microwave radiation can be found listed on the Website of Joris Everaert (biologist, ecologist, and photographer): <http://www.livingplanet.be/>.

An email from Dr. George Carlo¹ regarding the birds on January 1st, 2008 put it as follows:

Dear Paul:

"Canaries in the Coal Mine" is the operating concept to be sure. But it is a bit more complicated than the historical example, and therein lies the risk of missing the truth.

What we have found in our work with Autistic children, electrohypersensitives, and other patients with membrane-hypersensitivity-related conditions is that the ability of the person – or species – to counter environmental insults becomes severely impaired. EMR [electromagnetic radiation] is most likely a synergen in these cases, including the case with the disappearing birds. The exposures such as pesticides, chemtrails, harvesting of forests, and urban sprawl are not causes competing with EMR - they are additive and synergistic causes. They are insults to the system that require strong biological compensation to overcome. EMR depletes that ability to compensate, and thus the person – or species – succumbs to the effects of the environmental insult more severely and more rapidly.

To me, it is a matter of perspective. There are some naysayers who would have us look only one-dimensionally at causes of disease and other catastrophes. This is to be sure the tactic now being supported by the mobile phone and electric utilities

¹ Dr George Carlo, Ph.D, M.S., J.D. – a public health scientist, epidemiologist, lawyer, and the founder of the Science and Public Policy Institute – headed a \$28.5 million research program funded by the mobile-phone industry between 1993 and 1999.

industries – sort of like a 'bait and switch' tactic used by magicians. The truth is there, but they focus your attention on something else so that the truth is covered and not seeable. The problem is 'the bait' and the other causes are 'the switch'.

Epidemiologically, when one looks only at one etiologic factor at a time, the additive and synergistic aspects are lost in the mix. We now know that for almost every disease that befalls mankind, there is a combination of factors that lead to demise – or healthy compensation. Those factors are a mix of genetics, epigenetics, environmental timing and plain, old-fashioned luck – good and bad. When the ability of the organism or ecosystem to compensate is surpassed by the impact of damage itself, there is disease, disruption and sometimes extinction. This is simply the way it works.

There is no doubt that the science supports the hypothesis that the explosion of EMR exposures in these ecosystems is having an impact on the disappearing birds. Based on the mechanisms of harm we know to be operating, the impact likely includes ability to navigate and flock because of EMR disruption of magnetite and magnetic grid-related physiology, immune compromise, neurophysiologic disruption with resultant adaptive deficits, as well as indirect impacts on species food supplies and other survival necessities.

George

Dr. George Carlo
Safe Wireless Initiative
Washington, D.C.

Finally, with this knowledge that EMR is weakening the birds immune systems, it isn't hard to fathom that phenomena of bird flu may very well indeed be the effect of a weakened immune system and hence the viral infection a secondary cause.²

² See "Bird Flu and Microwaves: Are we Killing Birds with Radiation?"

Thus, it is clear that this radiation is indeed having a seriously negative impact on life on this planet – and that there is indeed a concerted effort to keep this knowledge from the public.

For the past year or so, the media has been covering the worldwide disappearance of bees, which has come to be known as Colony Collapse Disorder (CCD). Originally, the possibility that it might be the microwaves created quite a stir in the media; however, it seems that the media has somewhere along the line suddenly stopped running this story.

On January 20, 2006, the British *Daily Telegraph* ran an article titled “Honeybees might be wiped out in 10 years.” In the article they state that “Honeybees will die out in Britain within a decade as virulent diseases and parasites spread through the nation's hives, experts have warned.” In the article, there is no mention whatsoever of the microwaves from cell phone towers – and there is no consideration to the fact that microwaves may indeed be weakening the bees’ immune systems (and it is a proven fact that microwaves do weaken immune systems), which would in fact make the “virulent diseases and parasites” just “Opportunistic Infections” and the Microwaves the “Underlying Cause.” Bees and other insects, birds, and amphibians have survived and evolved complex immune systems on this planet over a span of millions of years. Now, why would they suddenly die out now due to “virulent diseases and parasites” – unless, of course, there was another factor being introduced to their environments – a man-made factor disrupting their immune systems, a factor about which – for economic reasons – the public is not being informed.

In another correspondence – this time with Carol H. of Amherst, MA in June of 2007 – Dr. Carlo sheds more light on these ridiculous statements being made in the media:

http://www.newmediaexplorer.org/sepp/2007/05/29/bird_flu_and_microwaves_are_we_killing_birds_with_radiation.htm

Dear Dr. Carlo:

I have read recently in Salon.com that the theory that bees are disappearing because of exposure to EMR is not supported by any science. You were on Good Morning America supporting that theory. Who is correct?

Carol H
Amherst, MA

Dear Carol:

Unfortunately, the situation with the bees is a page out of the playbook that we deal with all the time with the mobile-phone industry. When the bee story first broke, it was based on a German study that showed information-carrying radio waves disrupted the ability of bees to make it back to their hives. That work was made public about two months ago. There were other data to support it as well. You can see some of that on our SWI website – note especially an exceptionally insightful article by Milt Bowling posted there.

The news media ran with the story, bolstered a great deal by a quote attributed to Albert Einstein something along these lines: “Watch the bees! When they disappear, man will disappear within four years.” The mobile-phone industry was caught off-guard by the widespread-media attention the story garnered.

After the first news cycle, the mobile-phone industry 'hit squad' went into action. First, they planted stories that cast doubt on the Einstein quote. Never before have I seen such a desperate attempt to distance a quote from a figure as revered as Albert Einstein. In the process, his name was besmirched – Very sad. Next, they conscripted scientists from a number of universities to begin going public with other explanations...viruses, bacteria, pesticides etc., etc., etc. These alternatives have been making the rounds over the past month. The mobile-phone industry is putting quite a bit of money into the pockets of these scientists by supporting their work

regarding viruses and alternative explanations. The industry is dealing with it as a politics and public relations problem – thus, manipulation of the public perception is the appropriate remedy for them. Sadly, this is business-as-usual for the mobile phone industry.

Most people in the public don't know the back-story, so they do not see the manipulation coming or have the necessary bases for skepticism to see through it. But here is the bottom line:

- The colony collapse disorder has occurred concurrently on four continents within a very short time frame. If the reason was biological or chemical, there would be a pattern of epidemic spread – we would be able to trace the spread of bee disappearance or Colony Collapse Disorder from a source similar to the spread of SARS a few years ago. That is not the case. The condition has hit each continent at roughly the same time. That would mean the cause has to have hit the continents at the same time as well. Mobile phones meet that criterion.
- None of the biological or chemical hypotheses actually have a mechanistic explanation that is plausible. The science for the biological and chemical alternatives is far thinner than the science supporting the EMR connection. A case of the pot calling the kettle black.
- The disruption of intercellular communication hypothesis that we now know effects cell membranes in most species is biologically plausible – and no other theory has that support.
- The basis for a biological mechanism, coupled with the saturation in information carrying radio waves we have globally in the past 14 months, provides the underpinning. In 2004, we had the first billion cell-phone users globally, the accumulation over 20 years; by mid 2006, we had the second billion; today we have surpassed three billion. That suggests we are near a saturation point of these waves in the ambient environment. The bees are likely the harbinger or the proverbial “canaries in the coal mine.”
- Taken together, EMR is the only explanation that makes sense regarding the disappearing bees: the timing is correct – the problem has occurred primarily within the past two years – when we have nearly tripled the background level of

information carrying radio waves. The pattern is global so that suggests a cause that is globally present – there is at least one peer-reviewed study that supports it, and there is a mechanism documented that lends biological plausibility.

In our view, this is a serious “red flag” of risk that should be heeded. This is yet another example of mobile phone industry orchestration aimed at distracting the public from data that can save lives.

Dr. George L. Carlo
Science and Public Policy Institute
1101 Pennsylvania Ave. NW -- 7th Floor
Washington, D.C. 20004
www.sppionline.org
202-756-7744

In March of 2004, three years before the world-wide media picked up on the bee story, a German newspaper ran an article entitled “Protecting Bees From Mobile Phone Radiation,” certainly shedding further light on this issue

http://www.laleva.org/eng/2007/04/protecting_bees_from_mobile_phone_radiation.html

In the article, it states

An old truck has been until recently the domicile of a total of seven bee hives. Siegfried Vogel (in picture) has lost four of his bee colonies in the past year – those, which were located behind wooden shielding on his truck. His son Reinhold has had better luck: He still owns his three colonies of bees, which are located behind and protected by a portion of aluminum shielding on the same truck. Hence, Siegfried Vogel is now advising all beekeepers to protect their colonies of bees from mobile-phone radiation with aluminum shielding.

Despite all the jokes about aluminum hats out there to try to poke fun at and belittle the drastic increase in people with electrosensitivity (ES), it is a known fact that aluminum does block microwave radiation – if you don’t believe me, try

wrapping your cell phone in aluminum foil (no one will be able to call you) or putting aluminum foil in a microwave oven. Thus, this is just another strong piece of evidence demonstrating that it is indeed the microwave radiation killing the bees.

Dr. Gerald Goldberg (author of *Would You Put Your Head in a Microwave Oven?*) offers further clarification in his paper "To Bee Or Not Too Bee?" (October 30th, 2007) as to why it is indeed the cell phones killing the bees. <http://www.rense.com/general78/cdan.htm>

Another possible explanation has been parasites or viruses. There have been parasites noted in earlier isolated breakouts, but not on a global scale. Also what has been repudiated is a common virus, however the same reasons apply. Also many animals which become toxic from emf, the effect of which is accentuated by heavy metals and toxins often show a breakdown in immunity with the appearance of pathogenic organisms, be they parasites, fungi, bacteria or viruses. The organisms found are particular to the species affected but may indicate no more than immune stress.

What other common links can there be to explain a global epidemic that occurs at the same time of year and seems to affect bee populations equally, regardless of the pesticides or pests that they may be exposed to? One common link could very well be the electromagnetic disruption that is occurring at this time and is being caused by the discriminate and indiscriminate use of microwave technologies. The main technology would be the globalized electromagnetic network that has been produced for telecommunications. (Goldberg 2007)

And,

Illness and pesticides would cause a gradual die off and dying bees would be found in the hives. With CCS no bees are found in the hives. Microwave interference is the only plausible means of explaining why this phenomenon is being observed at this time. It also explains why it is occurring simultaneously and on a global basis.

(Goldberg 2007)

And,

As with bees, so the same effect is being observed in humans, note the rise in autism, memory disturbances and related disorders. The global alteration of our environment without regard to the limitations of our biology will have profound effects for all life on this planet. ***This is a timely and urgent matter that involves everyone*** [emphasis added]. (Goldberg 2007)

While attention is being drawn to the bees, other research indicates an effect on other insects, (perhaps also the reason for their – yet to be publicized - lack of visibility).

In a paper entitled the “Effects of Different Kinds of EMFs on the Offspring Production of Insects,” Panagopoulos & Margaritis found (1) a dramatic decrease in the reproductive capacity of fruit flies - up to 60% - with exposure to a digital GSM (Global Systems for Telecommunications) field, and (2) significant changes in reproductive capacity with exposure to other forms of electric and magnetic radiation. They exposed the fruit flies to cell-phone radiation for only six minutes a day for only four to five days and thus they concluded that

Results from additional experiments of ours, with different experimental protocols, suggest that: 1) the EMFs affect the reproductive capacity of both female and male insects... (p. 449)

And this especially related to GSM – now used widely throughout the world.

The results of our experiments show clearly that RF electromagnetic radiation, and especially GSM mobile phones' radiation at 900MHz, is highly bioactive, causing significant alterations in the physiological function of living organisms. Our results imply the need of prudent avoidance of exposure to this radiation and a very reasonable use of the mobile phones. (p. 449)

To say the least!

As it becomes clear from our experiments, Man-made EMFs, can affect significantly the reproductive capacity of insects. Our results imply the need for prudent avoidance of human exposure to all kinds of EMFs.

Especially about RF radiation at 900 MHz, emitted by GSM mobile phones, the results of our experiments show that this radiation, with exposure conditions similar to those a mobile phone user is subjected to, is highly bioactive, causing dramatic decrease in the reproductive capacity of insects. (p. 449)

Thus, this very well offers an explanation for the recent and most drastic disappearance of insects from our environment.

It is clear from our studies that full power use of GSM cellular phones (such as happens during a normal “talking” conversation-“speaking emission”), has dramatic effects on the reproduction of the insects, even with 6 min exposure daily, for only 2-5 days. On the other hand, when the mobile phones are used in “listening” mode, (“non-speaking emission”), then the effects are less dramatic, but still important. (p. 450)

So if a 60% decline in reproductive ability was caused only after six minutes of exposure per day for a total of only four to five days, we can only imagine what the effects of long-term incessant exposure to ambient microwave radiation from the global proliferation of GSM antennas is doing to the insects – hence we could very well be talking about the possible extinction in the very near future of the majority of insects on this planet.³

³ In another article appearing in the same journal on April 30th, 2007, “Comparison of Bioactivity Between GSM 900MHz and DCS 1800MHz Mobile Telephony Radiation”, Panagopoulos et al. concluded further that the radiation from both telecommunication systems presently used in Europe - GSM and DCS (Digital Cellular Systems) - decreased “significantly and non-thermally” the fruit fly’s reproductive capacity - while

Moreover, an article by Balmori (2006) entitled “The incidence of electromagnetic pollution on the amphibian decline: Is this an important piece of the puzzle?” appearing in the journal *Toxicological and Environmental Chemistry* seems to be the first to address the connection between microwave radiation and the global disappearance of frogs.

A bibliographical review on the possible effects of radiofrequency radiation (RFR) from wireless telecommunications on living organisms and its impact on amphibians is presented. The technical characteristics of this new technology and the scientific discoveries that are of interest in the study of their effects on wild fauna and amphibians are described. Electromagnetic pollution (in the microwave and in the radiofrequency range) is a possible cause for deformations and decline of some amphibian populations. Keeping in mind that amphibians are reliable bio-indicators, it is of great importance to carry out studies on the effects of this new type of contamination. Finally, some methodologies that could be useful to determine the adverse health effects are proposed.

On an anecdotal level, while living in an area of Japan without either cell-phone or television reception, I happened to notice an abundance of frogs close to where I was living. Deciding to do a search and armed with my microwave detector, I was unpleasantly shocked to be unable to find any frogs whatsoever in any heavily microwave-radiated areas with cell-phone reception that I searched in Japan.

Besides, insects, birds, and frogs, there has also recently been reported in the media a dramatic die-off of fish and bats in the USA. A Minnesotan high-school principle sent me a paper by a high-school student who had become curious about the effects of electropollution after her aunt was cured of Multiple Sclerosis

GSM 900MHz, most likely due to its increased field intensity, seemed to have more of an effect than the DCS 1800MHz.

(MS) following the installation of Graham-Stetzer filters (which have the effect of getting rid of dirty electricity) in her school and home. The student curious that there might be a link between the increase in frog deformities and electropollution decided to test the streams for electric currents and gaining the help of Mr. Stetzer himself – was actually able to find them at dangerously high levels, when there should have been none. Thus, these currents running through our waters could also very well explain the increase in infections among as well as the drastic disappearance of aquatic species we are seeing around the world.

In both New York and Vermont there have recently been reported the death of thousands of bats in what is being dubbed “white nose syndrome” to account for a ring of white fungus appearing around the bats’ noses.

Alan Hicks, a bat specialist with New York's Department of Environmental Conservation, called the quick-spreading disorder the "gravest threat" to bats he had ever seen. Up to 11,000 bats were found dead last winter and many more are showing signs illness this winter. One hard-hit cave went from more than 15,000 bats two years ago to 1,500 now, he said. (Hill 2008)

It is interesting to note here that in many of our modern diseases (e.g. chronic fatigue immune dysfunction syndrome [CFIDS], autism, attention deficit hyperactivity disorder [ADHD], etc.), which appeared or drastically increased in the past twenty years with the advent of wireless telecommunications (e.g. cell phone and WiFi), there is a weakening of the immune system accompanied by an increase in pathogens like fungi, viruses, candida, mycoplasma and so on. There is always the possibility that this microwave radiation – while weakening our immune systems – is at the same time also stimulating the growth of fungi and other possible pathogens, and it has been shown that certain electrical currents can also have this effect at the cellular level.

With regards to human beings, there are now numerous studies showing that microwave radiation does undeniably affect human fertility. For example, Brossner & Kuber (2002) found decreased motility of sperm (the ability of sperm

to move in a straight line towards its target) from exposure to the EMR given off by GSM mobile phones. Aitken et al. (2005) found a significant damaging effect on sperm DNA with exposure to radio-frequency EMR. Fejes et al. (2005) found that "the prolonged use of cell phones may have negative effects on the sperm motility characteristics." Stefenis et al. (2006) assert that "there are many animal studies that show that electromagnetic waves have a wide range of damaging effects on the male reproductive system and sperm parameters." Moreover, Eroglu et al. (2006) found "that EMR emitted by cellular phone influences human sperm motility. In addition to these acute adverse effects of EMR on sperm motility, long-term EMR exposure may lead to behavioral or structural changes of the male germ cell." Agarwal et al. (2007) deduced that the

use of cell phones decrease the semen quality in men by decreasing the sperm count, motility, viability, and normal morphology. The decrease in sperm parameters was dependent on the duration of daily exposure to cell phones and independent of the initial semen quality.

Wdowiak et al. (2007) concluded that

In the analysis of the effect of GSM equipment on the semen it was noted that an increase in the percentage of sperm cells of abnormal morphology is associated with the duration of exposure to the waves emitted by the GSM phone. It was also confirmed that a decrease in the percentage of sperm cells in vital progressing motility in the semen is correlated with the frequency of using mobile phones.

Finally, Yan et al. (2007) concluded "that carrying cell phones near reproductive organs could negatively affect male fertility."

Thus, it is easy to conclude that microwave radiation from cell phones and WiFi is very well affecting human fertility, not to mention being a probable cause of an increase in birth defects. Hence, to answer the question in the title of this paper, "Yes, we could very well indeed be next."

Moreover, there is an increasing mass of evidence – and hence awareness – demonstrating that this radiation is also responsible for the increase in a multitude of illnesses we have seen with the advent of this technology and the increase in EMR it has brought with it over the last twenty or so years. For example, in 2002, German medical doctors – the Interdisciplinary Society of Environmental Medicine – issued concern about wireless technology (cell phones, DECT, etc.) in the Freiburger Appeal (now with close to between 37,000 and 40,000 signatories) after finding a cause-and-effect relationship between “a dramatic rise in severe and chronic diseases” (e.g. behavioral disorders, ADD, blood pressure disorders, heart attacks and strokes, brain-degenerative diseases, & cancers like leukemia and brain tumors) with increased exposure to EMR. In 2005, the World Health Organization (WHO) officially recognized *electro-sensitivity* as a bona-fide disorder. The Vienna Doctors Chamber (*Wiener Arztekammer*), in 2005 – after the REFLEX Study clearly showed genetic damage – created posters (posted in hospital waiting rooms) warning of dangers and listing rules for use.

In August 2007, a report – issued by an international group of renowned scientists, researchers, doctors, and public health experts – entitled the BioInitiative (www.bioinitiative.org) warns

Wireless technologies that rely on microwave radiation to send emails and voice communication are thousands of times stronger than levels reported to cause some health impacts. Prolonged exposure to radiofrequency and microwave radiation from cell phones, cordless phones, cell towers, WI-FI and other wireless technologies have been linked to physical symptoms including headache, fatigue, sleeplessness, dizziness, changes in brainwave activity, and impairment of concentration and memory. (The BioInitiative Press Release, 2007, p. 2)

In September 2007, the German government warned its citizenry not to use mobile phones (only in emergencies) and WiFi. In Italy, children were banned in March of 2007 from bringing cell phones to schools. In November 2007, the city of Paris voted to ban WiFi in Public Libraries. In December 2007, an Australian

Democrats commissioned discussion paper found microwave radiation from cell phone towers to very likely be behind the drastic rise in disease states like cancer, diabetes, asthma, allergies, and Alzheimer's disease, etc.

The symptoms appearing with the installation of a nearby cell phone tower (mast) or a home WiFi (Wireless Internet) and/or DECT phone system include any or all of the following:

Headache, Sleep disturbances (Insomnia), Dizziness, Nausea, Heart Palpitations, Heart Pain, Concentration Problems, Fatigue, Listlessness, Indigestion, Reddening of Skin, Tingling Sensations, Anxiety Attacks, Memory Problems, Swollen Lymph Nodes, Excessive Thirst, Frequent Urination, Vision Problems, Tinnitus (Ringing in the Ears), Increase in allergies/sensitivities, etc.

Unfortunately, at present most people – and most doctors – do not attribute these symptoms to something that they cannot perceive with their five senses – sight, smell, touch, hearing, or taste – and end up misattributing them to something else.

A number of researchers have found that while the above symptoms are the initial effects of exposure to radiation emitted by cell phone towers, the long-term effect is indeed a dramatic increase in the risk of cancer. A recent study (Feb. 2008) by Austrian Dr. Gerd Oberfeld (EMFacts 2008) showed a 23-fold increase in breast cancer and a 121-fold increase in brain tumors for those who lived within 200 meters of a cell-phone base station for five years or longer. British physicist John Walker, Ph.D. has been researching the connection between cell-phone base stations and cancer clusters for a number of years now. He has found that if a cell-phone mast has been present for five or more years, cancers will start to appear in the areas around the mast where the emissions are strongest. If the mast has been present for close to ten years then cancer clusters⁴ clearly emerge (GRAM 2006).

⁴ See "Cancer clusters at phone masts" <http://www.timesonline.co.uk/tol/news/uk/article1687491.ece>

Finally, I had the opportunity to visit an intentional community in India where they do not permit cell-phone towers on their twenty-some square kilometers of land and where my high-frequency meter was reading Zero even at its most sensitive setting. There, when I went to sleep – and I slept great – it was to the sounds of insects; and when I woke in the morning, it was to the sounds of birds. When I rode a bicycle around the grounds, I was surrounded by swarms of beautiful butterflies. I saw this or felt this nowhere else in India that I visited. Thus, I was able to fully realize that this truly was what it means to be rich – to be feeling healthy and to be surrounded by the life of God's creatures and living in harmony with its nature.

So, what can we do? Life on this planet evolved over millions of years and – now – is being threatened by a mass unconsciousness! On one end, we have the greed – and hence deception – of the extremely rich and powerful mobile-phone industry. On the other hand, we have a mass stupidity and selfishness – and hence denial – of people who are so addicted to their little Weapons of Mass Destruction (WMD) that they refuse to give them up.

A severe crime is being committed by a cell-phone-toting humanity against all life on this planet. The only true solution is for us to give up our electromagnetic toys and demand that the towers-of-death be removed, dismantled, and demolished. However, whether or not this will indeed happen will depend on the level of consciousness of the population. If it doesn't then we will face severe problems including severe shortages of food – to say the least. Change has to begin with us if we are going to take responsibility. Only the irresponsible will expect someone to come along and save them or rather resort to blaming others when the shit hits the fan. We really do need to get rid of these death-ray devices and encourage everyone else we know to do the same until the powers-that-be find a safe (or safer) alternative – e.g. fiber-optics proposed by the late biophysicist Dr. Neil Cherry and presently promulgated by Dr. George Carlo. If we don't, it won't be much longer until we follow the path of the birds and the bees – and there will be no one to blame but ourselves!

And don't just take my word for it. Dr Robert O. Becker, M.D. – twice nominated for the Nobel Prize, one of the foremost experts on EMR, and the author of the books *The Body Electric* and *Cross Currents* – states the following:

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, M.D.

At present, in the so-called “democratic” USA, the “Telecommunications Act of 1996”⁵ – an undemocratic⁶ and unconstitutional US law on the books – prohibits communities to legally object to the erection of cell phone towers on the basis of health or environmental concerns. This hence makes it against the law to try to protect one's health or the health of the environment because our elected officials have found it more important to protect the mobile-phone industry's profits.

The Act also specifically prohibits states and local governments from regulating the placement and construction of communications facilities, like antennas and towers, on the basis of the environmental effects of electromagnetic fields if the facilities meet FCC standards for emissions....

The Act pays lip service to the importance of local zoning regulation, sufficient to encourage litigation, but without any genuine recognition of the importance of a homeowner's property values, peace of mind, and, particularly, health concerns. The Act denigrates health concerns by assuming that FCC standards for electromagnetic

⁵ See “A Brief History of the Telecommunications Act of 1996: Looking Closely at Safety” by Marjorie Lundquist, Ph.D., C.I.H., for more information.
http://www.wave-guide.org/library/tca_hist.html

⁶ I didn't vote for it. Did you?

emissions will protect the public health. That assumption [was] premature, given the large amount of ongoing scientific research on the subject and the lack of clear conclusions. The Congressional Conference Report indicates that the Act preempts state and local regulation of the environmental effects of electromagnetic emissions when it has requirements beyond those of FCC rules. This preemption discourages states from doing their own research on the health effects of these emissions because they cannot rely on the results in formulating regulations. That result does a disservice to the public. The FCC, in promulgating its rules setting a specific absorption rate limit for electromagnetic emissions at four watts per kilogram, noted that research in this area related to human health and safety is ongoing and that changes to recommended exposure limits are possible in the future. With that admitted uncertainty, it is unreasonable to limit what states and local governments may do to protect their residents. (Martin)

This extremely undemocratic law is outright morally wrong – and moreover is not only a clear violation of the right of every American to protect themselves, but also a clear violation of laws meant to protect our precious animals: (1) the Migratory Bird Treaty Act, (2) the Bald and Golden Eagle Protection Act, and (3) the Endangered Species Act. Hence, on these grounds, it should be immediately and unconditionally rescinded. The evidence collected at this point that this technology is extremely harmful to both human and animal life on this planet is completely and utterly overwhelming – and this is in spite of the mobile-phone industry’s attempt to control the government and to manipulate both the science and the media. To protect life on this planet – regardless of any economic concerns – these towers must be taken down now!

Permission to republish this paper – without alteration – is granted by its author.

References

[Aitken RJ., Bennetts LE., Sawyer D., Wiklendt AM & King BV.](#) (2005). “Impact of radio frequency electromagnetic radiation on DNA integrity in the male germline.” *International Journal of Andrology*. 28(3):171-9

Agarwal A, Deepinder F, Sharma RK, Ranga G, Li J. (2007). "Effect of cell phone usage on semen analysis in men attending infertility clinic: an observational study." *Fertil Steril*. 2007 May 3

Aivaz M. (2007). "Tens of millions of birds disappearing across North America." *Canadian Broadcasting Corporation*. <http://rawstory.com/rawreplay/?p=372>

Balmori A. (2006). "The incidence of electromagnetic pollution on the amphibian decline: Is this an important piece of the puzzle?" *Toxicological and Environmental Chemistry*. Volume 88, Number 2/April–June.
<http://taylorandfrancis.metapress.com/content/v53686w44787310r/>

Carlo G. (2008). Personal Correspondence.

Carlo G. (2007). Personal Correspondence.

Davoudi M, Brossner C, Kuber W. (2002). "Der Einfluß elektromagnetischer Wellen auf die Spermienmotilität." *J. Urol. Urogynäkol*, 9 (3): 18:22.

EMFacts. (2008). "#859: New Austrian study on cancer and a mobile phone base station." emfacts.com. <http://www.emfacts.com/weblog/index.php?p=859>

Eroglu O, Oztas E, Yildirim I, Kir T, Aydur E, Komesli G, Irkilata HC, Irmak MK, Peker AF. (2006). "Effects of electromagnetic radiation from a cellular phone on human sperm motility: an in vitro study." *Arch Med Res*. 2006, 37(7):840-3.

Everaert. J. Website of Joris Everaert. <http://www.livingplanet.be/>

Fejes I, Za Vaczki Z, Kolosza RS, Daru J, Kova CS L, PA L A. (2005). "Is there a relationship between cell phone use and semen quality?" *Arch Androl.*, 51(5):385-93

Foggo D. (2007). "Cancer clusters at phone masts." *Times Online*. April 22, 2007. <http://www.timesonline.co.uk/tol/news/uk/article1687491.ece>

Goldberg G. (2007) "To Bee Or Not Too Bee?" *Rense.com*.
<http://www.rense.com/general78/cdan.htm>

Goldworth Residents Against Masts (GRAM). (2006). "Phone Masts and Cancer Clusters." Oct. 26th 2006.
http://nomasts.org.uk/index.php?option=com_content&task=view&id=74&Itemid=116

Hasslberger S. (2007). "Bird Flu and Microwaves: Are we Killing Birds with Radiation?" *Health Supreme*.
http://www.newmediaexplorer.org/sepp/2007/05/29/bird_flu_and_microwaves_are_we_killing_birds_with_radiation.htm

Hill M. (2008). "Bat Deaths in NY, Vt. Baffle Experts." *Associated Press*. Jan 30, 2008.
http://ap.google.com/article/ALeqM5jqlXh1LrwpTZZW0QjCD_H91BqVYwD8UGF9101

Institute of Science in Society. (2007). "Phones & Vanishing Birds." *Institute of Science in Society (ISIS)*. ISIS Press Release 29/05/07
<http://www.i-sis.org.uk/MPVB.php>

Laleva. (2004). "Protecting Bees From Mobile Phone Radiation."
http://www.laleva.org/eng/2007/04/protecting_bees_from_mobile_phone_radiation.html

Lundquist M. (1996). "A Brief History of the Telecommunications Act of 1996: Looking Closely at Safety." *Wave-Guide.org*
http://www.wave-guide.org/library/tca_hist.html

Manville AM. (2007). "U.S. Fish and Wildlife Service Concerns Over Potential Radiation Impacts of Cellular Communication Towers on Migratory Birds and Other Wildlife – Research Opportunities." *Division of Migratory Bird*

Management, U.S. Fish and Wildlife Services (USFWS).

<http://www.c-a-r-e.org/pdfs/May%202007%20Washington%20DC/Manville%20DC.pdf>

Martin SL. “Communications Tower Sightings: The Telecommunications Act Of 1996 and the Battle For Community Control.” *The Berkeley Technology Law Journal*.

<http://www.law.berkeley.edu/journals/btlj/articles/vol12/Martin/html/text.html>

Panagopoulos et al. (2007). “Comparison of Bioactivity Between GSM 900MHz and DCS 1800MHz Mobile Telephony Radiation.” *Electromagnetic Biology and Medicine*.

Panagopoulos DJ. & Margaritis LH. (2002) ”Effects of Different Kinds of EMFs on the Offspring Production of Insects.” 2nd International Workshop on Biological effects of EMFS. Rhodes (Greece): 348-452.

Stefinis P, Drakeley A, Gazvani R, Lewis-Jones DI. (2006). “Growing concern over the safety of using mobile phones and male fertility.” *Arch Androl.* 52 (1):9-14.

The BioInitiative. (2007). Press Release. “Serious Public Health Concerns Raised Over Exposure to Electromagnetic Fields (EMF) from Power Lines and Cell Phones.” University of Albany: New York. August 31st, 2007.
http://www.bioinitiative.org/press_release/index.htm

Wdowiak A, Wdowiak L, Wiktor H. (2007). “Evaluation of the effect of using mobile phones on male fertility.” *Ann Agric Environ Med.* 14(1):169-72.

Yan JG, Agresti M, Bruce T, Yan YH, Granlund A, Matloub HS. (2007). “Effects of cellular phone emissions on sperm motility in rats.” *Fertil Steril.*, 88(4):957-64.