

# Chat Notes: C4ST Riding Rep/Riding Member Meeting March 8, 2022

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## Meeting Notes:

Thank you for attending this meeting! These meeting notes contain views expressed by various participants, and best-efforts interpretations and summaries by a volunteer note-taker. C4ST does not necessarily agree with all statements in these notes. These notes are marked "Draft" because they are not a transcript, are not meeting minutes, and are NOT FOR DISTRIBUTION.

## Stop Wireless 5G Until Health Canada's Safety Code 6 is Fixed: A Guide to Why and How

Frank and April introduced "The Guide": a 167-page reference document developed over the past two years which includes 394 footnotes! Below is the Executive Summary as well as the table of contents as a teaser. We hope that you will find it useful in your work as Riding Reps. Feel free to share it, to quote from it, to copy and paste sections to answer questions you receive. Just always include the source if we have included one. We encourage feedback. So do send comments or suggestions for additions for the next edition to [april@odon.ca](mailto:april@odon.ca).

### Executive Summary of the Guide

More than just an upgrade, 5G, the next generation of wireless technologies, is being rolled out rapidly across Canada. While earlier generations focused on cellular communication, the vision for 5G is to connect much more than people and phones. It is centered around the Internet of Things (IoT) - machine-to-machine communication.

5G promises extremely fast data speeds and much lower latencies (network delays) than previous generations. To do this, it will use greater bandwidth and new technologies. Earlier generations of cellular networks in Canada used frequencies below 2.6 GHz. 5G will use those same frequencies and the recently auctioned 3.5 GHz, plus it will add the "extremely high frequency" millimetre waves (mm Waves) at 26 GHz and higher.

To get around the shorter range of the mm Wave band, 5G will require a vast additional infrastructure, including more towers and hundreds of thousands of small cell antennas located very close to homes and businesses. Lamp posts, hydro poles, sides of buildings and many other locations are candidates to host small 5G cell antennas.

At the same time, the competition is launching tens of thousands of low orbit satellites to provide Internet service to every inch of the planet.

Why are we concerned?

There has been no research on the health effects of long-term exposure to mmWave radiation. (We are "flying blind," to quote a U.S. senator<sup>2</sup>).

We do have considerable evidence about the harmful effects of the microwaves used in 3G, 4G and LTE (the lower frequency bands that will also be used in 5G).

Hundreds of scientists specialized in the field have been warning governments for years that this type of radiation is harmful to humans and the environment. Over the last 20 years, more than 40 appeals and resolutions calling for more protective standards from radiofrequency (RF) radiation have been endorsed by hundreds of EMF researchers and physicians. See Chapter 4 for a list of these appeals.

We know from more than 200 scientists representing over 40 countries, who have published more than 2,000 studies in this field, that there is strong evidence of harm to humans and to the environment from exposure to the frequencies used in other generations of wireless technology (2G, 3G, 4G, LTE) that power our commonly used wireless devices such as cell phones, cordless phones and cell antennas.

This is what you will find in The Guide (Table of Contents):

## **1. EXECUTIVE SUMMARY**

- 1.1. SUMMARY
- 1.2. TOP TEN REASONS WHY 5G SHOULD BE PUT ON HOLD

## **2. AN OVERVIEW OF 5G**

- 2.1. WHAT IS 5G?
- 2.2. THE ELECTROMAGNETIC SPECTRUM
- 2.3. WHAT IS DIFFERENT ABOUT 5G?
- 2.4. WHY IS 5G SO CONCERNING?
- 2.5. WHAT ARE THE BENEFITS?
- 2.6. THE INTERNET OF THINGS (IOT)
- 2.7. WHEN WILL 5G BE ROLLED OUT IN CANADA?

## **3. WHY ARE WE CONCERNED?**

- 3.1. HEALTH EFFECTS (LONG-TERM)
- 3.2. HEALTH EFFECTS (MORE IMMEDIATE): ELECTROMAGNETIC HYPERSENSITIVITY – THE CANARIES IN THE COAL MINE
- 3.3. IMPACTS ON WILDLIFE, INCLUDING BIRDS AND POLLINATORS, AND PLANTS
- 3.4. A MAJOR CONTRIBUTOR TO CLIMATE CHANGE AND POLLUTION
- 3.5. RISKS TO PERSONAL AND BUSINESS PRIVACY
- 3.6. GRAVE SECURITY RISKS
- 3.7. CONTRAVENTION OF HUMAN RIGHTS
- 3.8. DECREASED ABILITY TO FORECAST THE WEATHER AND MONITOR THE CLIMATE, AND A THREAT TO ASTRONOMICAL OBSERVATION
- 3.9. MAJOR RISK TO AVIATION SAFETY
- 3.10. INCREASED ECONOMIC BURDEN

## **4. SCIENTISTS AND DOCTORS HAVE BEEN WARNING GOVERNMENTS FOR YEARS**

- 4.1. THE INTERNATIONAL EMF SCIENTIST APPEAL TO THE UN (ONGOING)
- 4.2. SCIENTISTS' 5G APPEAL TO THE EUROPEAN UNION (ONGOING)
- 4.3. CONSENSUS STATEMENT OF UK AND INTERNATIONAL MEDICAL AND SCIENTIFIC EXPERTS AND PRACTITIONERS ON HEALTH EFFECTS OF NON-IONISING RADIATION (NIR) (ONGOING)
- 4.4. INTERNATIONAL APPEAL TO STOP 5G ON EARTH AND IN SPACE (ONGOING)
- 4.5. UNITED STATES OF AMERICA NATIONAL 5G RESOLUTION
- 4.6. APPEALS BETWEEN 1998 AND 2014

**5. WHO REGULATES WIRELESS DEVICES, CELL ANTENNAS, AND THE USE OF THE SPECTRUM IN CANADA?**

- 5.1. THE SPECTRUM AUCTIONS – IS THE GOVERNMENT IN A CONFLICT OF INTEREST?
- 5.2. ANTENNA SITING AND PUBLIC CONSULTATION – IS THIS CANADIAN DEMOCRACY?
- 5.3. ANTENNAS MUST COMPLY WITH ENVIRONMENTAL LEGISLATION. . . BUT THERE ARE NO GUIDELINES TO PROTECT OUR NATURAL ENVIRONMENT FROM RF RADIATION
- 5.4. FOR HEALTH CONCERNS, ISED DEFERS TO HEALTH CANADA’S SAFETY CODE 6
- 5.5. DOES ANYONE MONITOR THE RF RADIATION EMITTED BY THE INSTALLATIONS?

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## **6. SURELY HEALTH CANADA HAS SAFETY GUIDELINES TO PROTECT ITS CITIZENS?**

- 6.1. SAFETY CODE 6 – HEALTH CANADA'S EXPOSURE GUIDELINES
- 6.2. IS HEALTH CANADA FULFILLING ITS MANDATE?
- 6.3. REPORT OF THE HOUSE OF COMMONS STANDING COMMITTEE ON HEALTH (HESA) IGNORED
- 6.4. WHY IS HEALTH CANADA NOT ACTING?

## **7. PERVASIVE CONFLICTS OF INTEREST**

- 7.1. INTERNATIONAL COMMISSION FOR NON-IONIZING RADIATION PROTECTION
- 7.2. WORLD HEALTH ORGANIZATION (WHO) AND ITS EMF PROJECT
- 7.3. INDUSTRY INFLUENCE
- 7.4. MEDIA COVERAGE

## **8. DO WE REALLY NEED 5G NOW?**

- 8.1. WHY THE RUSH?
- 8.2. THE SCIENTIFIC DECISION IS CLEAR

## **9. SAFER ALTERNATIVES EXIST: WIRED IS BETTER**

- 9.1. WIRED VS WIRELESS
- 9.2. DO WE NEED WIRELESS FOR 911?
- 9.3. FIBRE OPTICS TO THE PREMISES (FTTP) FOR ALL CANADIANS
- 9.4. REMOTE AREAS DO NOT HAVE TO SETTLE FOR SATELLITE BROADBAND
- 9.5. TAKING CONTROL: SOME COMMUNITIES ARE BUILDING THEIR OWN FIBRE INFRASTRUCTURE

## **10. ACTIONS TAKEN BY OTHERS AROUND THE WORLD**

- 10.1. GOVERNMENT ACTIONS
- 10.2. LEGAL ACTION
- 10.3. THE INSURANCE INDUSTRY PROTECTS ITSELF FROM CLAIMS
- 10.4. THE TELECOM INDUSTRY IS AWARE OF THE RISKS

## **11. CONCLUSION**

## **12. IT DOESN'T HAVE TO BE THIS WAY: TAKE ACTION**

- 12.1. INTRODUCTION (OR TO RECAP)
- 12.2. WHAT WE NEED
- 12.3. PROTECT YOURSELF AND YOUR FAMILY
- 12.4. RAISE AWARENESS
- 12.5. STAND UP AGAINST THE INSTALLATION OF ANTENNAS IN YOUR NEIGHBOURHOOD
- 12.6. THE SINGLE MOST IMPORTANT THING THAT YOU CAN DO: PUSH THE FEDERAL GOVERNMENT TO PROTECT ITS CITIZENS
- 12.7. ASK YOUR PROVINCIAL REPRESENTATIVE TO PROTECT ITS CITIZENS

## **13. WHO WE ARE**

### **APPENDICES**

- APPENDIX 1 – Cellular Antennas in Canada
- APPENDIX 2 – Sources of Information
- APPENDIX 3 – Canadian Advocacy Groups Raising Awareness
- APPENDIX 4 – Scientific Evidence for Harm to Health

APPENDIX 5 – Scientific Evidence for Harm to Non-Human Life (Wildlife, Birds, Insects, Pollinators, Trees & Plants)  
APPENDIX 6 – Publications on Energy Consumption Related to Information and Communications Technology  
APPENDIX 7 – Evidence Ignored by Health Canada  
APPENDIX 8 – Action Tools  
APPENDIX 9 – Urgent Appeal to the Government of Canada

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## Announcements:

- **Guest Speaker, Tues. April 5<sup>th</sup>, 7:30: Lyn McLean, EMR Australia**
- Executive Officer of the EMR Association of Australia and Secretary of its forerunner, the EMR Alliance for nine years.
- Deputy Chair, of the ACIF Committee that developed the Code for the Deployment of Radio communications Infrastructure - and Deputy-Chair of the Communications Alliance committee that revised this Code in 2010-2011.
- A member of the Department of Health's EME Reference Group, hosted by ARPANSA, for over 15 years.
- A member of the local government committee that developed the Model Telecommunications and Radio communications DCP.
- A member of the Consultative Group for the development of the Australian Standard for ELF 2004-2011.
- A qualified trainer and educator; who has presented at conferences, Senate Inquiries, committees and numerous public meetings.
- She has written extensively for newsletters and magazines and given media interviews.

## Riding Representative Actions:

Thank you for your great work urging Senators from your province to include CEPA in Bill S-5 amendments. We appreciated the extra effort you made to share the CEPA White Paper with them. It was great to hear from some of you about your Senator "Email Blitz" and who responded.

If you have made phone calls to Senators and were able to arrange a meeting, please let us know. Our C4ST Leadership team would be willing to provide you with support if a Senator agrees to meet with you. Please contact Marg Friesen, [marg.c4st@gmail.com](mailto:marg.c4st@gmail.com), and Shelley Wright, [shelleyw@c4st.org](mailto:shelleyw@c4st.org).

As you know, we have been working on having wireless radiation (EMR - electromagnetic radiation) included in amendments to the Canadian Environmental Protection Act (CEPA). We thought it would be going to the House of Commons Standing Committee on Environment and Sustainable Development (ENVI). However, to our surprise, the amendments to CEPA have gone to the Senate as Bill S-5 - Strengthening Environmental Protection for a Healthier Canada Act.

We appreciate all your help to reach out to Senators by email and by phone!

Here are just a few examples of the things you can do to help us share the CEPA White paper widely:

- Reaching out to groups in your community, provincially and nationally (TBA Call to Action)
- Editing / writing white papers
- Organizing webinars and workshops
- Making short videos for posting on our website and social media
- Social media outreach
- Following-up with Senators and Members of Parliament
- Graphic design
- Translation

- Ideas for promoting the “Protect Birds, Bees & Trees, Include EMR in CEPA” campaign would be appreciated.

### Canadian Grassroots/Environmental Organization Outreach:

Please send us the names of grassroots organizations in your community. We will send you a “Call to Action” next week, asking them for your support, and requesting that they sign onto the short form\*. When they sign up, this is letting us know that they agree that Bill S-5 should include a section to address protections of biota from wireless radiation. We would like to share this information with Senators, so they can see how many organizations are supporting the EMR inclusion in CEPA.

The sign-on form will be coming soon to the C4ST website.

**BRAG Project:** citizens get Safe & Sound Pro II measurement meters to do local measurements in their area, [globalemf.net](http://globalemf.net), worldwide. More volunteers are needed please. So far, they are in at least 10 countries, with 400 volunteer citizens.

### Key Links:

Here is where to find your provincial Senators and their contact information:  
<https://sencanada.ca/en/senators/>

To follow the Senate’s Bill S-5, go to:

<https://sencanada.ca/en/in-the-chamber/debates>

Prevent Cancer Now

[https://preventcancer.ca/wp-content/uploads/2022/03/EMR\\_in\\_CEPA\\_White\\_Paper\\_by\\_PCN\\_C4ST\\_Feb2022.pdf](https://preventcancer.ca/wp-content/uploads/2022/03/EMR_in_CEPA_White_Paper_by_PCN_C4ST_Feb2022.pdf)

Levitt, B. B., Lai, H. C., & Manville, A. M. (2021): three-part scientific review recommend regulation of EMR originating from human activity (anthropogenic) as pollution

<https://pubmed.ncbi.nlm.nih.gov/34047144/>

<https://pubmed.ncbi.nlm.nih.gov/34243228/>

<https://pubmed.ncbi.nlm.nih.gov/34563106/>

Reference: Planetary Electromagnetic Pollution: It Is Time to Assess Its Impact. The Lancet. (2018): 512-14. [https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196\(18\)30221-3/fulltext](https://www.thelancet.com/journals/lanplh/article/PIIS2542-5196(18)30221-3/fulltext).

C4ST Auditor General Petition 456 Submission and Government Responses can be found here:

[https://c4st.org/wp-content/uploads/docs/GovRelations/Fed/Health-Canada/5G\\_Petition\\_and\\_Government\\_Response.pdf](https://c4st.org/wp-content/uploads/docs/GovRelations/Fed/Health-Canada/5G_Petition_and_Government_Response.pdf)

Page 8. [https://c4st.org/wp-content/uploads/docs/GovRelations/Fed/Health-Canada/5G\\_Petition\\_and\\_Government\\_Response.pdf](https://c4st.org/wp-content/uploads/docs/GovRelations/Fed/Health-Canada/5G_Petition_and_Government_Response.pdf)

Government of Canada. (2017). Healthy Environment, Healthy Canadians, Healthy Economy: Strengthening the Canadian Environmental Protection Act, 1999. Report of the Standing Committee on Environment and Sustainable Development. Deborah Schulte, Chair. <https://www.ourcommons.ca/DocumentViewer/en/42-1/ENVI/report-8>

<https://www.ourcommons.ca/DocumentViewer/en/42-1/ENVI/report-8>

<https://pubmed.ncbi.nlm.nih.gov/34047144/> <https://pubmed.ncbi.nlm.nih.gov/34243228/> <https://www.degruyter.com/document/doi/10.1515/reveh-2021-0083/html>

Canada: Friesen, M., & Havas, M. (2020). Effects of Non-ionizing Electromagnetic Pollution on Invertebrates, Including Pollinators such as Honey Bees: What We Know, What We don't Know, and What We Need to Know. In Working Landscapes. Proceedings of the 12th Prairie Conservation and Endangered Species Conference, Danyluk (ed.). February 2019, Winnipeg, Manitoba. 203 pages. (pp. 127-138). Critical Wildlife Habitat Program, Winnipeg, Manitoba. Retrieved from <http://pcesc.ca/media/45404/final-2019-pcesc-proceedings.pdf>

India: Kumar, S., Singh, V. K., Nath, P., & Joshi, P. C. (2020). An overview of anthropogenic electromagnetic radiations as risk to pollinators and pollination. Journal of Applied and Natural Science, 12(4), 675-681. <https://doi.org/10.31018/jans.v12i4.2420>

Spain: Balmori, A. (2021). Electromagnetic radiation as an emerging driver factor for the decline of insects. Science of The Total Environment, 767, 144913. <https://doi.org/10.1016/j.scitotenv.2020.144913>



## Chat Notes:

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Additional Discussion March 22, 2022, Barb’s fabulous notes!

### **Marg’s presentation:**

We appreciate feedback via chat or send a message to [marg.c4st@gmail.com](mailto:marg.c4st@gmail.com).

Bill S-5 in the Senate.

This is part of the cover page of the recently released White Paper co-authored C4ST and Prevent Cancer Now.

-cover: top photos are messages, bottom photos are wildlife; co-authored C4ST and Prevent Cancer Now [preventcancer.ca](http://preventcancer.ca)

- “Protect fauna and flora...”: it was a simple statement when we started, and then a lawyer looked at it so that it would get some traction.

- Macro towers can also be on top of buildings. Towers are getting smaller and smaller with various frequencies antennas. In Eastern Ontario someone has 300 with 300 more coming. It isn’t just power density that is a problem. The wavelengths are very complex and biological effects can also be due to modulation and polarization. And for cellphones, “SAR” is the measurement regulated, not power density.

- Small Antenna Installations: there will be many, close together even along small streets; some won’t be noticeable because built into streetlights

- (clearing up the confusion about 5G definition) Millimetre waves don’t as easily penetrate through doors and walls, which is why they want to install them so densely and networks sources closer to each other.

- Biological effects: some are effects that are adverse to health. There is a worldwide decline in insects, bees, butterflies, and more. EMR can be a contributing factor.

- Bees (reads slide). Insects reproduce very quickly so can sometimes adjust to various stressors. One insect studied extensively in laboratories is fruit flies: DNA damage, other documented adverse effects.

- Birds: EMR exposure affects orientation ability. Human limits are based on heating, and if tissue dissipates heat within 6 minutes after EMR exposure then Health Canada deems that safe.

- Trees: 970 microwatts per m<sup>2</sup> is far below current Health Canada Safety Code 6 maximum limits.

- BRAG Project: citizens get Safe & Sound Pro II measurement meters to do local measurements in their area, [globalemf.net](http://globalemf.net), worldwide. More volunteers are needed please. So far, they are in at least 10 countries, with 400 volunteer citizens.

- There are non-wireless solutions. We would not need so many cell network towers and cell phones can work at very low emission levels. "Re-Inventing Wires: The Future of Landlines and Networks." They already lay fibre optic cables to the cell towers; we have to insist that they also lay them all the way to our homes, with a choice to wire within our homes too. "The Secret Inside Your Cell Phone" Wendy Mesley "Marketplace" t.v. episode on CBC.

- just released C4ST new document: "Stop Wireless 5G Until Health Canada's Safety Code 6 Is Fixed: A Guide to Why and How." Lots of information, processes, where municipalities are involved, etc. It is the first edition and welcome your suggestions etc. It will be posted at [c4st.org](http://c4st.org) soon.

- Timeline (reads and explains)

Q: I have a research centre about 4 miles from my house, a govt research centre that has a forest. These centres would be a really good place for looking at cell tower and wi-fi access. What do you recommend for information to approach them with?

A: A lot of information is in the White Paper, including it refers to a three-part review by Levitt, Lai, and Manville. I would print those and give them or send them. And they mention gaps in regulation. And a key point is that air should be considered as being habitat.

- Environment Canada is doing nothing, that we know about. C4ST sent an Auditor General petition that required responses from various Ministers, and in their responses they decided not to do anything.

- Important court case in the U.S. ruled that FCC had not adequately looked at effects on the environment.

- It's so obviously an environmental agent that can do harm.

Q: Have any large environmental attorneys been approached?

A: Not in Canada. It is very frustrating that the environmental groups are not onto this. Individual biologists sometimes understand it when we individually present it to them. Ecological impact studies are beginning, such as in Greece. This is a reason to make this White Paper available to everyone. And we've contacted the Senators about Bill S-5, to encourage support of EMR awareness and regulation. It's even a food security issue.

Q: [participant various, about one Senator, strategies, etc.]

Frank: (Last year, Appeal.) It's a challenge how to get out and talk to everyone. It's getting their attention, so that they'll know there's a safer way to connect their phones and other things.

What's great about this new CEPA work is that it's a whole new audience, an audience that we need.

Q: A farmer in Canada went to court with a study on frogs (by Balmori) and he won for not having a cell tower close to his property. It might have been in Alberta. I'm confident in using that study with the same strategy, about power density. I think it is the simplest thing to address, to lower the power density considerably. I discovered that it is the municipal jurisdiction, such as decibels for noise. I have discussed with a lawyer in a private discussion who was able to do something with that.

Frank: We have spent a lot of time and money on legal opinions. If you have a lawyer saying they can do something, please tell them to go ahead and make the case.

Q: I want to try it in my municipality, starting with a petition from all my neighbours, with enough signatures to be good pressure on my city. If I obtain it, then it is an example for all other cities in Canada, to copy it. There is a psychological phenomenon when you're the first and only one acting, it is not taken seriously; but once you hit the third person doing the same, then the crowd lifts. Are there other municipalities that would like to stop 5G and I could talk to them to join that kind of process. Then each of them can say, "Did you know there are these other municipalities doing this." [And protected low-EMR areas.]

Marg: We need to take all the best practices of municipal policies and publish that.

Marg: We need volunteers to help about the environmental aspects, for contacting groups. For example: churches usually have a group that is concerned about the environment. Similarly, architects and other groups. If someone belongs to a group, it's effective if that person approaches the group to point out there is so much science.

Marg: I believe that frogs will be very badly affected because of their extremely thin skin. Insects will be very badly affected by millimetres because insects do not naturally thermoregulate. There is a huge field of study required before the rollout.

Q: I discussed with Rogers technicians. They don't see 5G as being millimetre waves. They have lots of 5G on 600 MHz, which is much lower than Wi-Fi and regular cellphones.

Marg: 1000 megahertz equals 1 gigahertz. 600 MHz will go through concrete walls.

Q: Also the 5G is directional. And the feeling of it is not the same. I do have the Safe & Sound Pro II and TS593 (which can detect 5G better).

Marg: Safe & Sound is not as good for the lower frequencies. When they, now, talk about 5G, it includes the lower frequencies you're talking about and others, including the recent spectrum auction 3.8 GHz. Millimetre waves I believe will be auctioned in early 2024 by ISED in the Gov't of Canada. There are some pilot projects out there. The measurement metres would be very expensive. So we should get on top of the millimetre waves, perhaps beginning a campaign in September this year. It is very focused energy - such as what is weaponized for crowd control.

Q: Talking about frequencies plays into the industry strategy. No one talks about power density. Medical treatments are applied that work. Years ago, someone invented a device at specific frequencies to get rid of insects and rodents – it worked at the beginning, until the insects and rodents got used to it, however, after it was changed to a PULSED frequency it was not possible for them to get used to it.

Marg: Our efforts should not be directed at the telecom companies, it's to ISED, the gov't, Health Canada - it is their job to protect us. If ISED changes the rules, the companies will change. All roads, for human health, go to Safety Code 6 and Health Canada - so that's where the emphasis should be.

Q: I will measure an estuary in my area that is being restored. The main part is the insect population, to measure it. I did some metering pre the 5G rollout in this area. I'm open to suggestions and recommendations.

B.C. Nature has reached out to me.

My local nature club ignored Dr. Magda Havas' offer to speak to our group via zoom, even though they've had other things that are not as important, and of course there's the perception that against 5G we're conspiracy theorists.

Marg: They're also talking about "internet of the oceans." Also, I didn't talk about satellites. We have to educate people. Once the environment groups get onboard, I think this is going to really take off.

Participant: I thought Fort White in Winnipeg might get engaged. Nature Canada, The Audubon Society, The Bird Watchers Society. What about zoos?

Marg: Whoever sends me an email, I will send you my environment list. A lot of bird groups are under Birds Canada, and a biologist in our group is already going to approach them. So we need to identify the groups.

It will be interesting to see the feedback we get on the White Paper. We could do specialized information sheets on, for example, birds, or insects, etc.

Q: The Toronto Zoo just put in Wi-Fi. They're advertising it now, as an additional reason to go to the zoo. Perhaps they would be a good recipient of the dangers of Wi-Fi.

Probably not related, within a few days their rhino died.

Marg: Something might die or have bizarre behaviour and won't know why. We can educate them so that they have a before-and-after. Ticks have been studied quite a bit: certain frequencies attract the ticks.

Things like that can pique their interest and then they'll look for other research literature as well.

Q: In building biology, ants and hornets are attracted; they're indicators of geopathic stress.

Marg: They've evolved with this as part of their biology. Somehow the biological research community hasn't latched onto it. It could be that they have to apply for funding and the funding sources don't think this is something to look at.

Q: Have you had Peter Webb, Ottawa area in radionics, as a guest speaker? He can clean up a body of water anywhere on the planet.

Q: And it impacts microbes in the soil as well.

Marg: Dr. Sharon Goldberg, U.S., spoke at several hearings about effects on bacteria. It's fascinating. It can help motivate us to do more but Environmental Canada will be more interested in birds and the bees.

I worked on the inside, and if the public doesn't put pressure on then the department won't work on it even if the department people are interested in it.

Q: E.g. World Water Protection Day, etc. Could we segue into those different days, to connect with the concern around flora and fauna, and human health? Earth Day April 22nd. There are all kinds of days. Maybe we could raise the profile that way.

Marg: For CEPA we do want to put out a press release.

Q: You always talk about insects, but do you have studies about worms. There are less and less worms in this earth. Worms are very, very important for farmers, for oxygen in the soil. Do "insects" include worms?

Q: A firmware update was uploaded by BC Hydro at our radio-off meter on Friday. It overloaded a golf cart charged in the garage, and that has never happened before. Sunday and Monday night I had to sleep in my car to get rid of the new hum that the meter produced.

Frank: It might have done something that reads more often. Or maybe they changed something that affected ground current or dirty electricity or back current. Firmware is close to being hardware.

S-5 is an Act to amend the Canadian Environmental Protection Act, 1999, to make related amendments to the Food and Drugs Act and to repeal the Perfluorooctane Sulfonate Virtual Elimination Act

Short title: Strengthening Environmental Protection for a Healthier Canada Act

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## **Q & A or a Comment in the Chat Box:**

(Thanks from several participants.)

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