



Hornepayne

Nuclear Waste Community Liaison Committee



Learning More About Canada's Plan for the Long-Term Management of Used Nuclear Fuel

Special Meeting
Tuesday, May 24th 2018 at 6:00pm
Royal Cdn Legion Branch No. 194
48 Sixth Ave, Hornepayne, Ontario

NWCLC Present

Jon Peroff-Chairman
Morley Forster-Co-Chairman
Carlo Bin
Lisa Stewart
Chad Verrino
Elly Colazzi
David Jaremy

NWCLC Absent with Regrets

Cheryl Browne
Cindy Craig
Paul Stewart
Robert Dumoulin

Township Staff

Amber-Starr Boissoneau

Guests Present

Michelle Falardeau
Haylie Dumoulin
Trinity Dumoulin

Speaker:

Dr. Jason Donev, PhD University of Calgary

Notice

CLC Chair, Jon Peroff *"Voice recording in use for the meeting. For minute taking accuracy purposes only."*

CLC Chair, Jon Peroff *"The Hornepayne CLC recognizes this area is situated on the traditional territories of the indigenous population that have in the past and currently live in this area"*



Learning More About Canada's Plan for the Long-Term Management of Used Nuclear Fuel

Resolution No. 18-57 - Be it resolved that we do call this Special meeting of the Hornepayne Nuclear Waste Community Liaison Committee to order at the time of 6:00pm

Moved by: Morley Forster
 Seconded by: Chad Verrino

Carried

Resolution No 18-58 - Be it resolved that the Hornepayne Nuclear Waste Community Liaison Committee does hereby approve the agenda as presented.

Moved by: Carlo Bin
 Seconded by: Elly Colazzi

Carried

Presentation of “*How Science Fiction has Influenced Science and Technology*” by Dr. Jason Donev, PhD, University of Calgary

- Who am I?
 - Education and Outreach Team with Canadian Nuclear Society (CNS) created “Nuclear 101” and “Energy for Everyone” courses.
 - 2017 CNS Excellence in Education and Outreach Award
 - 2016 & 2012 Student Union Teaching Award
 - 2013 Faculty of Science Award for Excellence in Public Outreach
- Science Fiction on TV, in movies, in books, and in comics
- Sci-Fi:

<ul style="list-style-type: none"> ○ Star Wars ○ Star Trek ○ Quantum Leap ○ Transformers ○ GI Joe ○ James Bond ○ House, MD ○ Spider-Man 	<ul style="list-style-type: none"> ○ Batman ○ Superman ○ Fantastic Four ○ Jurassic Park ○ Indiana Jones ○ Futurama ○ Simpsons
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- Fictional scientists-which ones are villains?
- Science: Good or Evil
- Canada does great nuclear science: Candu Reactor, leader in nuclear medicine
- Fusion in Canada: STOR-M tokamak “energy too cheap to meter”
- Irradiation of Food:

<ul style="list-style-type: none"> ○ Insect disinfestation ○ Shelf-life extension ○ Quarantine 	<ul style="list-style-type: none"> ○ Pathogen reduction ○ Sprout inhibition
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- The Future: Thinking Small-Small Modular Reactors
- Nuclear is not just electricity
 - Detection, Quality and Safety Inspections



- Compact Fluorescents, Emergency Lighting, Smoke Detectors
- DNA Sequencing
- Nuclear Medicine and Imaging
- Sterilizing of Medical Equipment, Materials Research
- Food preservations
- Waste Vs. Pollution
 - Waste is material or energy that is not wanted or not used or unusable remains or by-products of a process
 - Pollution is harm to environment (including people) from waste with negative effects from by-products of a process.
- Five (5) Barriers: The Pellet, The Element and Bundle, The Used Fuel Container, The Bentonite Clay, the Rock (geology)
- Hot issue: Earth's atmosphere is getting hotter, droughts are getting drier, wildfires are more common, and weather is more extreme: floods, hurricanes, storms.
- Solution: Climate Change

Questions/Comments:

Q. Is it possible to use the energy left that is considered waste?

A. Yes, but not economically feasible for another 50 years as technology needs to catch up. Improving the nuclear chemistry to use more than 1/50 or 1/100 there would be less radiation emitted over time at 700 years opposed to 1,000,000 years.

Resolution No. 18-59 - Be it resolved the Hornepayne Nuclear Waste Community Liaison Committee meeting be adjourned at the time of 8:01pm.

Moved by: Chad Verrino
Seconded by: Lisa Stewart

Carried.