York Emergency Mitigation, Engagement, Response, and Governance Institute (Y-EMERGE) Newsletter, August 2023

Y-EMERGE builds on York's exceptionalexpertise to develop, grow, and sustaintransformative and multidisciplinary researchand teaching in transformative disaster riskreduction, emergency preparedness,response, and recovery. Y-EMERGE bringstogether a wide variety of disciplines,including mathematical modelling, social andbehavioural study, geospatial technology,artificial intelligence, participatory research,and the humanities and social sciences.Y-EMERGE fosters strong relationships withgovernmental agencies, stakeholders, andcommunities beyond the campus,emphasizing research and trainingopportunities that contribute to communityand organizational resilience.

Our newsletter aims to share some of this incredible work and provide updates to the Y-EMERGE Community.

Visit our website to learn more about the research that is done at Y-EMERGE.

1 - Director's Message

- Y-EMERGE is created to leverage and furthering York University’s institutional capacity and its global collaborative network to develop and coordinate transformative and integrative research; foster strong networks of researchers, trainees, and practitioners; develop a robust agenda for funding research and practice; and advance disaster and emergency knowledge translation activities to meet the urgent need to transform thinking, policy, and practice in disaster and emergencies for a more resilient and healthy communities in Canada and globally. - Professor Jianhong Wu

Director Y-Emerge

Recent Events: Emerging & Systemic Risks Monthly Lectures

Recently the following events were hosted through Y-EMERGE:

Title of the talk: Coordinating Ontario's Poultry Industry's Response to Disease through Preparedness and Prevention

We hosted Emerging & Systemic Risks Monthly Lectures Talk #9 on Thursday, July 20, 2023. Speaker Maggy Watson is the Operations Lead, Feather Board Command Centre (FBCC).

On July 20, 2023, Maggy Watson, the Operations Lead, Feather Board Command Centre (FBCC) talked about Coordinating Ontario's Poultry Industry's Response to Infectious Disease through Preparedness and Prevention in the Emerging and Systemic Risks Monthly Lecture Series. She started with an acknowledgement of working with skilled and resourceful people. Then she introduced the Feather Board Command Centre as a collaborative effort between Ontario's four poultry marketing boards. in Ontario they have the chicken farmers of Ontario, the egg farmers, Ontario Broiler Hodging Egg Chick Commission and then the Turkey Farmersville, ON.

Then she talked about the hazards for farmed animal disease. Federally Reportable Diseases (CFIA) and Ontario Provincially Notifiable Hazards (OMAFRA) has a huge list of hazards from which FBCC only takes care of Avian Influenza, Fowl typhoid, Newcastle disease under CFIA and Avian encephalomyelitis, Avian Infectious Laryngotracheitis, Avian mycoplasmosis under OMAFRA.

Further Maggy said "There are 3 responders for animal disease or the poultry industry Federal, provincial and territorial. We have two levels of government. Agriculture and food Canada, Health Canada. Of

course, we're talking about infectious things. So, they become evolved because there's all kinds of wild birds now ministry of environment conservation and park stuff for Ontario."

And on the industry side they have their marketing boards, the poultry service support sector and the other businesses and organizations that are going on around the farms that help get the products to the grocery store. And then, of course, the big, important one, the heart of the industry, which is farmers. FBCC is here to integrate the industry side into that government side.

Then Maggy shared the time layer formation of FBCC.

Maggy said, "we do preparedness training and exercises which helps us to get to that that stage of integration. So, we have all of the stuff from the feather boards, we train them incident management system beforehand.

For prevention the farmer needs to maintain bio security standard. Bio Security are tangible or intangible security measures and steps that are taken to prevent the introduction of any type of hazard that may introduce the spread of an infection into a protected population of animals. Bio Security standard are the key to prevention and limitation of disease spread. The marketing board require quota holding farmers to maintain strict bio security standards on their farm. And those video programs are included in annual inspection events. So, that kind of bio security standards are all the time run at the mills. And then they also have tightened bio security protocol for province as a whole, or for a specific area.

Another major part of response is how our integration works, Maggy said. We're going to talk about training of IMS. This is our general BCCIMS structure. The reason we love IMS in this type of area is very scalable and modular. Incursions of disease have been required different levels of response. This whole structure, if it's a smaller face in AA secluded area we have a emergency response plan that we share with the Ontario Animal Health Network. That's something that we are able to carry out pretty routinely. We may not have to stop this whole plan for you. We are able to only roll out the sections we need. We need basic incident management system. However, if we have something that's a little bit more complex, such as the highly pathogenic alien influenza response, then we may carry out all of these roles and responsibilities in here.

Highly pathogenic influenza in 2022 and 2023 definitely can be used as a complex response category. They had 39 staff from all four of the feather boards that were responding. Some were related to troubleshooting and support for the farmers and the industry.

Lastly, another response area that the key farmers start to use or continue to use technology a lot more in forming their bird health decisions.

Moderator Dr Carly Rozins asked many questions along with the below ones:

If there is an outbreak on a quota holding farm versus a non quota holding farm, do you think the procedure is similar like with their tests go to the same facility?

Maggy said all the tests do go ultimately to the same lab. So, they're all under the same.

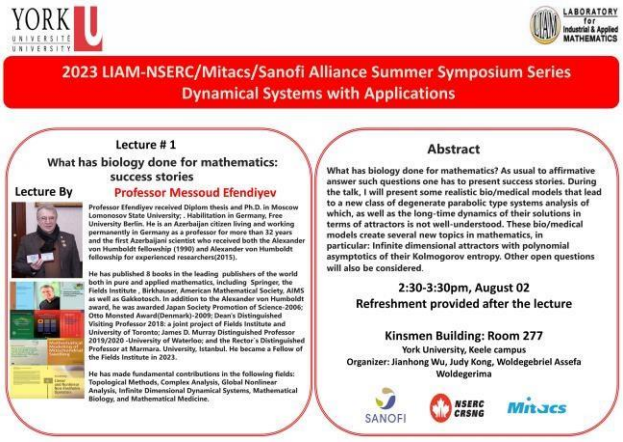
Then Dr. Carly asked to what extend the bio security needed?

Maggy's ended up the discussion by the below comment:

Bio security is the only prevention. The industry was to focus on how we can try to manage wildlife and the birds' interactions with wildlife. Bio security is one of those ways, because that's how we keep the birds that they're farming away from the wildlife. You can watch the full webinar through the below link: https://www.yorku.ca/research/yemerge/lectures/

2023 LIAM-NSERC/Mitacs/Sanofi Alliance Summer Symposium Series

Dynamical Systems with Applications



Latest News!

- July 31, 2023- Modeling the impact of a high-uptake bivalent booster scenario on the COVID-19 burden and healthcare costs in New York City by Abhishek Pandey a g, Meagan C. Fitzpatrick a b g, Seyed M. Moghadas c g, Thomas N. Vilches a c g, Charles Ko d, Ashwin Vasan e f, Alison P. Galvani a
- July 22, 2023- Bayelsa panel fingers IOCs, regulators in state's oil pollution tragedyYork YEMERGE Member Anna Zalik was mentioned in *Punch Nigeria* July 22
- July 19, 2023- Will Ontario's 'clean' battery storage be powered by a fossil fuel?Mark Winfield, YEMERGE Member at York University, was quoted in Corporate Knights
- July 18, 2023- New Lassonde facility explores how climate impacts infrastructure
- July 16, 2023- INSIDE THE VILLAGE: When forest fires rage out of control Eric Kennedy, a professor of disaster and emergency management at York University, was quoted in Innisfil
- July 15, 2023- Survey studies emotional toll of disasters two years after Barrie tornado-Jennifer Spinney, an assistant professor in disaster and emergency management at York University, was quoted in CTV News July 15
- July 15, 2023- BARRIE TORNADO RECOVERY PROJECT: TWO YEARS AFTER THE STORM Research by Jennifer Spinney
- July 13, 2023- Jennifer Spinney, the Y-EMERGE member, was featured in Barrie 360 on July 13.
- July 12, 2023- EXCLUSIVE: Big Batteries Likely Powered by High-Emitting Gas Under Ontario Grid Plan
- July 12, 2023- Ontario's Energy Expansion Goes Heavy on Nuclear

- July 10, 2023- 'A place where people come together': York University students developing climate solutions at Penetanguishene ecology garden
- July 8, 2023 - Child Protection Services and Youth Experiencing Homelessness: Findings of the 2019 National Youth Homelessness Survey in CanadaJuly
- 7, 2023- 10 Years Since the Toronto Flood of 2013
- July 6, 2023 - A combination of social, organizational and technical factors caused the Titan's implosion
- July 4, 2023 - Climate Change Adaptation Program
- July 4, 2023 - 'A Preoccupation With Failure.' Why the Titan Submersible Was Doomed From the Start
- July 4, 2023 - Multiple warnings about Titan submersible were ignored

For regular updates, please keep your eyes on the latest news of Y-EMERGE by using the below link:

https://www.yorku.ca/research/yemerge/latest-news/

Awards!

- June 20, 2023 - **Professor Cary Wu Earns Sociology Research Award**

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For any further update or information feel free to contact us!

Y-EMERGE

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