UNIVERSITY OF CALGARY

Agenda

Transdisciplinary Workshop in Quantum and Quantum Adjacent Computing for Natural Disaster Prediction

Date and Time:
Monday, September 9 - 11:00 am to 4:30 pm
Tuesday, September 10 - 9:00 am to 4:30 pm

Location:
ES136, University of Calgary
Calgary, AB (see map for directions)

DAY 1 - Monday, September 9th

Objectives

- Meet each other, and learn about our work in predicting floods
- Identify ways we might work with and support each other
- Develop a foundation for a transdisciplinary partnership for flood prediction

11:00 am - 12:30 pm – Set Context
Dr. Sanders will welcome the group and explain the workshop's purpose. We'll learn about the purpose and intention of this transdisciplinary partnership and what has already happened. We'll learn about the project goals and take time to get to know each other.

12:30 pm - 1:15 pm – Lunch Break

1:15 pm - 3:00 pm – Who are we? What do we do? What are we working on?
We'll learn more about who's in the room, their skills and their work on flood prediction. Each participant will be asked to share their expertise in 10 minutes or less.

3:00 pm - 3:15 pm – Break

3:15 pm - 4:15 pm – What would you like to be able to do with flood prediction?
We'll identify our aspirations for flood prediction by answering the question, "What do we wish we could do to improve flood prediction?"

4:15 pm - 4:30 pm – wrap up
We'll take some time to reflect on the day and confirm the agenda for Day 2.

Day 2 – Tuesday, September 10th

Objectives

- Explore problems and challenges that a transdisciplinary partnership might address
- Develop and refine research questions that we might pursue together
- Identify the next steps that a transdisciplinary partnership might take

9:00 am - 9:30 am – set context
After a quick check-in, we'll review the agenda for the day and confirm our approach.

9:30 am - 12:30 pm – What problems in predicting floods could a partnership explore?
The group will brainstorm problems and challenges related to flood prediction. We'll look for patterns, and create themes that we'll use to generate potential questions for research.
(includes 15 min break)

12:30 pm - 1:30 pm – Lunch Break

1:30 pm - 3:00 pm – What potential research questions could we explore in a partnership?
In small groups, we'll take the results from the previous discussion and explore potential research questions together. As we develop our questions, we'll discuss which ones are most amenable to quantum-enhanced computing and how we might improve them.

3:00 pm - 3:30 pm – Break

3:30 pm - 4:30 pm – Where to from here?
In a large group, we'll discuss what we want to do next and who should be involved. We'll finish by creating a list of next steps. We'll conclude with a reflection on the process, our experience and our results.