



CWRA ACRH

Canadian
Water
Resources
Association

Association
Canadienne
des Ressources
Hydriques



UM | Price Faculty
of Engineering

**Manitoba Flood of 2022 Workshop:
Stories, lessons learned, and pathways to a more resilient future
February 21st, 2023**

8:00 AM - Opening Prayer and Teaching

Elder Norman Meade, Elder in Residence, University of Manitoba

Keynote Addresses

*Doug McNeil, McNeil Consulting Inc., Engineer-in-Residence with Price Faculty of Engineering:
Historical Floods in Manitoba*

*Russ Andrushuk, Manitoba Transportation and Infrastructure: Everything Everywhere All at
Once: A Review of Manitoba's 2022 Flood*

Patricia Mitchell and team, Manitoba USKE: Flood Hazard Mapping Project

**Session 1 - Flood Prediction:
Modelling, forecasting and early warning systems**

*Alexandra Lavictoire, Lake of the Woods Control Board Secretariat: An Overview of the Lake of
the Woods Control Board's Hydrological Forecasting System*

Shane Wruth, Manitoba Hydro: Manitoba Hydro's Modernized Inflow Forecasting System

*Fisaha Unduche, Manitoba Transportation and Infrastructure: Manitoba's 2022 Flood –
Operations, Forecasting & Lessons Learned*

**Session 2 - Building Resilience:
Understanding current and future flood risk**

*Michael Vieira and Phil Slota, Manitoba Hydro: A Hydropower Perspective on Climate Change
and Floods*

*Ricardo Mantilla and Chandra Rajulapati, Price Faculty of Engineering: The Present and the
Future of Flood Hazard Estimation and Flood Forecasting in Manitoba, an Academic
Perspective*

~ 12:00 noon - LUNCH (provided) ~

*Lunch Sponsor Presentation - Nicholas Kehler, AECOM: Modernizing Flood Protection: Red
River Pump Stations*

...PROGRAM CONTINUED ON NEXT PAGE



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Session 3 - Mitigation Measures:

Approaches to mitigate the impacts of future floods

Karl-Erich Lindenschmidt, University of Saskatoon: [Advances in Assessing Mitigation Effects on Ice-Jam Flood Hazard and Risk](#)

David Fuchs, Hatch: [Fargo-Moorhead Area Flood Diversion Project](#)

Jeremy Greshuk, City of Winnipeg: [Winnipeg's Flood Manual – Strategic and Tactical Uses during the Spring 2022 Flood Event](#)

Session 4 - Emergency Flood Management: Preparedness, response and recovery

Ashley Keep and Stephanie Woltman, Manitoba Emergency Measures Organization: [Manitoba Emergency Measures Organization's Involvement in the 2022 Spring Flood Event](#)

Monika Huminuk, Grand Council Treaty 3: [Response to the 2022 Flood Event](#)

Brian Earl, Manitoba Transportation and Infrastructure and David Brown, KGS Group: [2022 Flood Response on the Little Saskatchewan River](#)

William Sutherland, Peguis First Nation: [Peguis First Nation: A Community in Crisis](#)

Panel Discussion:

Lessons learned and pathways to a more resilient future

Moderator: Ricardo Mantilla, Price Faculty of Engineering

Panellists will include:

Fisaha Unduche, Manitoba Transportation and Infrastructure

Johanu Botha, Manitoba Emergency Measures Organization

Myrle Ballard, University of Manitoba and Environment and Climate Change Canada

Jay Doering, University of Manitoba

Lynda Nicol, Manitoba Association of Watersheds

Richard Grosshans, International Institute for Sustainable Development

Short Stories

Short stories and talks from impacted communities and water resources professionals will be integrated throughout the program

Closing Prayer

Elder Florence Paynter, Elder in Residence, National Centre for Truth and Reconciliation

~ 4:45 PM - NETWORKING RECEPTION ~

Complementary beverage of choice (beer, wine, mixed drink, soda), appetizers, cash bar