

GWF Finale
2023 Open Science Meeting
“Results, Capacities and Solutions”

Poster Lightning Talks

Session 1, Monday, May 15, 11:15–11:30 AM (after <i>Climate and Extremes</i> session; before <i>Water Budgets, Cryosphere and Rivers</i> session)	
Zelalem Tesemma	Modeling the impact of clear-cut, mountain pine beetle and wildfire on the hydrology of the Upper Columbia and Okanagan river basins
Zhihua He	Sensitivity of extreme streamflow to wetland drainage and restoration over the Canadian Prairies
Lauren Miranda	Impacts of wetland removal on the Prairies and how to communicate them
Shakil Ahmed	Linkages of wetland pond nutrients with land use and biogeochemical drivers in Canada’s Prairie Pothole Region
Peter Lawford	A new algorithm for predicting water-driven sediment erosion on the Canadian Prairies
Renee Carriere	Fire and Water in the Saskatchewan River Delta

Session 2, Tuesday, May 16, 9:30–9:45 AM (after <i>Agricultural Basins</i> session; before <i>Changing Groundwater</i> session)	
Predrag Rajsic	Cost-effectiveness of wetlands as a nature-based solution to buffer phosphorous in Canadian landscapes
Joey Simoes	Strategies and Practical Applications for BMP Spatial Targeting in Canadian Prairie Watersheds to Maximize Water Quality Benefits
Lamisa Malik	Legacy Phosphorus across Canada: Insights from a 60-Year Dataset
Ahmed Okasha	Modeling approaches for fate and transport in groundwater coupled with human interactions: A case study in Saskatchewan
Ruchi Bhattacharya	Dams and reservoirs as nodes of social-ecological systems
Haoyu Yin	Influence of dynamic river stage on the vulnerability of water wells and structure foundations in cold regions
Jiangyue Ju	Short-term predictions of transient shallow groundwater level at local scale using data-driven models

Session 3, Tuesday, May 16, 1:30–1:45 PM (before <i>Forested Basins</i> session)	
Anastasia Sniderhan	Land cover change analysis reveals net permafrost aggradation over 45 years in the Baker Creek watershed, Northwest Territories
Zhibang Lv	Influence of assimilating surface snowpack observations to snowpack simulation by a physically based hydrological model
Lijie Guo	Quantifying the Hydrological Effects of Agricultural Land-use and Climate Change in a Cold Semi-Arid Region

Jorge Garcia Hernandez	Development of a Pan-Canadian Hydro-Economic Model to Assess Climate-Induced Water Risks on the Canadian Economy: A Computable General Equilibrium Approach
Yi Wang	The dependence of evaporative efficiency of vegetated surfaces on ground cover weight fractions in mesic ecosystems

Session 4, Tuesday, May 16, 4:15–4:30 PM (after <i>Lakes, Ponds, Wetlands</i> session)	
Ali Reza Shahvaran	Evaluation of multispectral air- and space-borne Chlorophyll-a products for remote monitoring of eutrophication in Western Lake Ontario
Md Abdus Sabur	Carbon budget of an urban stormwater pond: importance of riparian vegetation
Mahyar Shafii	Quantitative insights into phosphorus loadings and speciation in urban catchments
Jovana Radosavljevic	Salinization increases eutrophication symptoms in freshwater lakes of North America
Stephanie Slowinski	Lake sediments record the changes in phosphorus loading and cycling accompanying the transition from agricultural to urban land use in a watershed in the Greater Toronto Area
Lewis Alcott	Direct Microplastic Inputs to the Laurentian Great Lakes from Wastewater Treatment Plants
Yichun Huang	Public preferences and willingness to pay for water quality improvements in the Great Lakes Basin during Covid-19

Session 5, Wednesday, May 17, 9:30–9:45 AM (after <i>Observatories, Observations and Sensors</i> session; before <i>Changing International Water</i> session)	
Weijia Cui	Reagent Free Detection of E. coli O157-H7 in Water Samples Using an Antibody Functionalized Microwave Biosensor
Emil Sekerinski	Democratizing Real-Time Water Quality Monitoring
Sara Eager	An assessment of the Global Water Futures program research outputs between 2017 and 2022
Morteza Behbooei	Leveraging open source resources to preserve research outputs from a large interdisciplinary water science project: case study of peer review publications
Zemichael Workneh	Impacts of climate change on water-related vector borne diseases in temperate regions: A systematic review of literature and meta-analysis
Kurt Belcher	Human Dimensions of Water Security: Comparing academic and governance literature through qualitative review