



Presents

The Changing Climate and Environment of Western Canada

Documentary Film Premiere and Panel Presentation

Roxy Theatre, 320 20th St. W, Saskatoon

7:30 PM, March 6, 2018

Schedule of Events

7:30 PM	Introduction and Welcoming Remarks	Howard Wheeler
7:40 PM	CCRN Documentary Showing	
8:15 PM	Panel Introductions and Panelist Remarks	
8:45 PM	Moderated Panel Discussion	
	Panelists: Sean Carey, John Pomeroy, Howard Wheeler, Ronald Stewart, Jennifer Baltzer, Wayne Dybvig, Shannon Dyck, Barrie Bonsal	
9:20	Introduction to Global Water Futures (GWF) and University of Saskatchewan GWF Promotional Video	John Pomeroy
9:30	Closing	

Panelist's Short Biographies

Professor **Howard Wheeler** is Canada Excellence Research Chair in Water Security and founding Director of the Global Institute for Water Security at the University of Saskatchewan. An expert in hydrological science and modelling, he has published more than 200 refereed articles and 7 books. He is a Fellow of the Royal Academy of Engineering and the American Geophysical Union and winner of the Prince Sultan bin Abdulaziz International Prize for Water. He has initiated and led various national and international research programmes, most recently the \$143million pan-Canadian Global Water Futures Program. He has advised states, provinces and national governments on flood, water resource and water quality issues, and recently sat on an International Court of Arbitration concerning the Indus Waters Treaty. He is currently consultant to the republic of Chile and a member of the US National Academies' Committee on Future Water Resource Needs for the Nation.

Shannon Dyck is an Environmental Coordinator for the City of Saskatoon, with a Master's degree in environmental education from the University of Saskatchewan. Through her role with the City, she manages environmental programs, develops public education strategies, conducts environmental research, and supports the work of community partners. She is currently coordinating the City's climate change engagement and communications strategies, as well as supporting the development of Saskatoon's Climate Action Plan.

Professor **Jennifer Baltzer** is a Canada Research Chair in Forests and Global Change. Dr. Baltzer is a forest ecologist whose work focuses on the drivers of the composition, structure and function of forests from the tropics to the subarctic and responses of these systems to global change. Dr. Baltzer has an extensive boreal forest field research program throughout the Northwest Territories, which focuses on the impacts of climate-driven disturbances including permafrost thaw and wildfire on subarctic ecosystems. Dr. Baltzer was recently inducted into the Royal Society of Canada's College of New Scholars, Artists and Scientists.

Professor **Sean Carey** directs the Watershed Hydrology Group at McMaster University and his research interests include hydrological, biogeochemical and land surface processes in natural and human impacted environments. Dr. Carey's group uses field, laboratory and modelling approaches to understand how hydrological processes interact and influence ecosystem, biogeochemical and catchment processes across scales. Dr. Carey has a particular interest in cold environments and has been working in Yukon Territory for over 20 years. In addition, the influence of landscape disturbance on catchment processes has been an area of focus as the group seeks to help both industry and regulators understand and mitigate large scale disturbance in northern regions. Dr. Carey serves on the Global Water Futures Strategic Management Committee and is the Principal Investigator for the Mountain Water Futures program.

Professor **John Pomeroy** is Director of the Global Water Futures Programme – the largest university-led freshwater research project in the world. He serves at the University of Saskatchewan as Canada Research Chair in Water Resources and Climate Change, Distinguished Professor of Geography, Director of the Centre for Hydrology and Director of the Coldwater Laboratory, Canmore, Alberta. He is a Fellow of the American Geophysical Union and the Royal Geographical Society, 2017 recipient of the J Tuzo Wilson

Medal from the Canadian Geophysical Union and Institute Professor of the Biogeoscience Institute of the University of Calgary. He leads the International Network for Alpine Research Catchment Hydrology project of the Global Energy and Water Exchange Project for the World Climate Research Programme, the Canadian Rockies Hydrological Observatory study and is co-principal investigator of the NSERC Changing Cold Regions Network.

Pomeroy has led several international initiatives such as the International Commission for Snow and Ice Hydrology, the IAHS Decade on Prediction in Ungauged Basins, and national groups such as the IP3 Cold Regions Hydrology Network, the Drought Research Initiative and the Canadian Geophysical Union. He has served as Research Scientist, Professor, Visiting Professor and Honorary Professor to the USDA Forest Service, Environment Canada, University of Wales, Chinese Academy of Sciences and University of Aberystwyth. Dr. Pomeroy has authored over 300 research articles and several books that have been cited over 11,900 times. His current research interests are on the impact of land use and climate change on cold regions hydrology and water quality, and improved prediction of climate change impacts, especially floods and droughts.

Wayne Dybvig was born and raised in Saskatchewan. He attended the U of S and holds a BSc in Geological Engineering and M.Sc. in Hydrology. He has over 35 years of experience in water resource management working for Alberta Environment, SaskWater, Saskatchewan Watershed Authority, Environment Canada and Saskatchewan Water Security Agency. During his career he has worked in many different aspects of water management including flood forecasting, watershed planning, water allocation and hydrological studies. He has been a member of several interjurisdictional water boards including the Prairie Provinces Water Board, The Mackenzie Basin Board, the International Souris River Board and the International Red River Board which he co-chaired for three years. In 2010 he became president of the Saskatchewan Watershed Authority and led the development of the Saskatchewan 25 Year Water Security Plan and the establishment of the Water Security Agency of Saskatchewan where he served as president until retirement in 2016.

Professor **Ronald Stewart** is a professor of atmospheric science at the University of Manitoba. Previously, he was a professor at McGill University and a senior scientist with Environment and Climate Change Canada. Professor Stewart's research focuses on extreme weather, precipitation and regional climate; current research topics include winter precipitation formation and its occurrence as well as recent and future droughts, forest fires and flooding over Canada. He is a Fellow of the Royal Society of Canada and the Canadian Meteorological and Oceanographic Society and he has been awarded the Patterson Medal by the Meteorological Service of Canada.

Dr. **Barrie Bonsal** is a research scientist with the Watershed Hydrology and Ecosystem Research Division of Environment and Climate Change Canada based in Saskatoon. He obtained a PhD in Physical Geography from the University of Saskatchewan in 1996 where he studied the causes and impacts of droughts on the Canadian Prairies. His current research examines the impacts of both past climate variability and extremes (including droughts and floods), and projected future climate change on the water resources of Canada with a particular focus on western regions of the country. This has resulted in the publication of over 75 peer-reviewed research papers and numerous reports. Dr. Bonsal is also an adjunct professor in the Department of Geography at the University of Saskatchewan and the University of Victoria.