



Phase 2 Communications Goals:

 Support HQP Recruitment, Partnership Building, and First Reporting of Results

Phase 3 Communications Goals:

- Promote Research Findings and Impacts, Enhance Profile, Highlight Indigenous engagement
 - Starting after the April 30th project outcomes deadline, push out stories on findings and impact from all 39 projects – a huge opportunity!













Highlighting GWF engagement with Indigenous communities

• ie. Six Nations news releases, stories, and Jan. 21 announcement:



RESEARCH

USask-led Global Water Futures launches six projects co-led with Indigenous partners

In a unique approach to improving water security through western science and Indigenous knowledge, the University of Saskatchewan-led Global Water Futures (GWF)—the world's largest university-led freshwater research program—has launched six new co-led projects across Canada to address urgent and growing water quality issues for Indigenous



Highlighting Indigenous engagement ...

"Why so few people on Six Nations reserve have clean running water, unlike their neighbours" — Dawn Martin-Hill, McMaster Assoc. Professor, interviewed on **national CBC Radio**





Building national and international profile through earned and paid media



Example:

-- Full-page advertorial in National Post, Ottawa Citizen, Hill Times, highlighted GWF achievements (Nov. 2018)



Using Nat'l Post Advertorial to Highlight GWF Goals and Successes:

Improving disaster warning

We are implementing the first flood forecasting system for the Yukon Territory

Predicting water futures

- We are predicting water flows for the Great Lakes, SK and Mackenzie River basins to assess climate change impacts on future water availability
- We are calculating reliable, high- resolution future climate conditions for Canada

Adapting to change and managing risk

 We are developing the first snowpack forecasting in Canada over the Canadian Rockies



Building GWF Profile:

CALGARY FEATURED: CHRIS VARCOE LICIA CORBELLA COMPELLING CALGARIANS ENERGY NEWS

New science is forecasting the future in the changing climate of Western Canada

Changing Cold Regions Network ends five-year study

Read more

-- 21 news releases in 2018 from GWF/USask

Fortified Arctic infrastructure needed in face of climate change: study

THE CANADIAN PRESS Updated: January 16, 2019

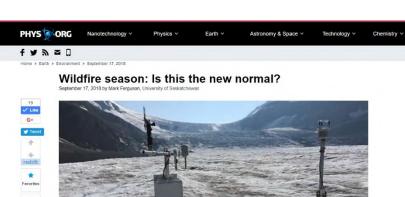




Global Water Futures announces 21 new projects across Canada

Research aims to predict Canada's future hydrology and support decision-making

Read more





parts of the Atlantic provinces all experiencing one of the worst fire seasons in history. Globally, wildfires in the United States, the United Kingdom, Spain, Portugal, Greece, Sweden and Australia are burning at an alarming

In the news



Washington Post: 'Third World conditions': Many of Canada's indigenous people can't drink the water at home, featuring Dawn Martin-Hill (Oct. 15)

CBC MENU V

2WS Wildfire soot darkening glaciers could speed up melt rate, scientists fear

monitoring glaciers, like the Conrad, south of Golden, B.C., for the last five years, as part of a research project at the University of Northern British Columbia.



Researchers are concerned over what they are calling the darkening of the ice on western Canadian glaciers, which is caused by smoke and ash from nearby wildfires. (Margot Vore)

Building profile: news pitches and interviews...



Five questions with hydrologist John Pomeroy



John Pomeroy is associate director of the new program Global Water Futures.

TODD KOROL/THE GLOBE AND MAIL

JEFF LEWIS > ENVIRONMENT REPORTER CALGARY PUBLISHED SEPTEMBER 9, 2016

UPDATED MAY 17, 2018

University of Saskatchewan hydrologist John Pomeroy speaks about <u>Global Water</u> Futures: Solutions to Water Threats in an Era of Global Change. The university-led research initiative launched this week with \$77.8-million in funding from Ottawa.

Mr. Pomeroy is associate director of the new program, which aims to harness big data to forecast and mitigate water-related threats such as the devastating flood that hit Calgary in 2013.

1 Tech firms taking over Ottawa's downtown 2 Did I overstep when I gave unsolicited advice to my son's soccer teammate? DAVID EDDIE 3 Beijing says no plans to retaliate if Ottawa blocks Huawei from Canadian 5G networks 4 Market movers: Key stocks seeing action today - and why 5 ROB MAGAZINE Back from death's door, this CEO has a hot new venture – and investors are piling in



-- Earned media: 40 media stories on GWF in 2018



Amplify messaging by leveraging communications capacity of key partners:

- Enhance profile of partner university projects:
 - Post project profiles on GWF website (done)
 - Encourage more stories from partners and link to these on GWF website
 - Pitch to the Globe & Mail environment reporter
 - Push out more news via social media
 - Engage CFREF Secretariat and funders in cross-promotion
 - ie. "GWF Earns U.N. Recognition" announcement of RHB (Jan. 21, 2019)

USask GWF Profile



September 2018 - Issue #9

Discovery Digest

Highlights of U of S research news

In this issue: CIHR Institute of Indigenous Peoples' Health moves to USask, Groundbreaking MS discovery, SSO-USask team up to ask if brains synch-up during performance, Royal Society accolades abound, even more research news....

Water resources research

Famiglietti gives invited talk to World Bank MENA



Jay Famiglietti, Canada 150 Research Chair in Hydrology and Remote Sensing, gave an invited presentation on Changing global freshwater availability and implications for water security to the World Bank in Washington, D.C. on Sept. 27. Famiglietti presented to an audience of economists, political scientists, and the bank's chief economist for the Middle East North Africa (MENA) region. Discussions ranged from raising awareness of water issues with political leadership and the wider public, improving data collection, and sharing data

USask researcher only non-American on USGS water report



member of a committee contributing to a report for the United States National Academy of Science, Engineering, and Medicine. The report on future water priorities released in ember will inform decision-making for the U.S. Geological Survey. Read the report



Canada's leading researchers tackle critical issues facing water security

This month, USask water scientists and others from across the country held what is believed to be the first major science gathering on a First Nation in Canada. The inaugural meeting of the USask-led Global Water Futures (GWF) program on the Six Nations of the Grand River and at McMaster University focused on critically important issues related to Canada's fresh water resources. Pictured left to right are Elan Henhawk, Elder of the Six Nations of the (GIWS), and John Pomeroy, Canada Research Chair in Water Resources and Climate Change and Director, Global Water Futures program

GWF video released



The USask-led Global Water Futures (GWF) program has released a video encapsulating the Global Water Futures Inaugural Annual Science Meeting. Researchers from around the world gathered in Hamilton, Ont., and on the Six Nations of the Grand River reserve on June 3-6, 2018. Jointly hosted by McMaster University and Six Nations, the conference focused on co-creation of Indigenous and non-Indigenous research. Watch the video here.

International irrigation commission conference held in Saskatoon



Researchers from USask are among water scientists from around the world presenting their work this week at the annual conference of the International Commission on Irrig and Drainage. Keynote addresses were delivered by: John Pomeroy, Canada Research Chair in Water Resources and Climate Change and director of the USask-led GWF; Peter McCornick, executive director of the Daugherty Water for Food Global Institute (DWFI) at the University of Nebraska, and Maurice Moloney, executive director and CEO of the USask Global Institute for Food Security.

water security nescuren



Water security documentary to be broadcast in North Carolina

A documentary produced by Global Institute for Water Security and Media Production, The Changing Climate and Environment of Western Canada, has been licensed to University of North Carolina at Charlotte Television (UNCCTV) public access channel for broadcast . The 35-minute documentary featuring many U of S water security researchers will air three to four times a week to viewers across UNC Charlotte campus and 500,000 households in the county this summer, and regularly over the next five years . The documentary focuses on Western Canada's rapidly changing cold interior and how the climate and environment have changed and will continue to change until the end of the 21st century. You can watch it right now.

A2 SATURDAY, SEPTEMBER 22, 2018 SASKATOON STARPHOENIX



CONTACT THE STARPHOENIX



PhD student Emily Cavaliere studies a water cleansing process called "denitrification" that keeps lakes "anve in winter. DAVE STOBBE

YOUNG INNOVATORS

U of S researchers uncover secret winter life of lakes

FEDERICA GIANNELLI

While most of nature is peacefully der their thick, jev covers,

maintaining water quality.

With results published in the tainability (SENS) and Cavaliere's asleep during frigid Canadian win- journal Biogeochemistry, Baulch supervisor. "This is key to under- in lakes and how algal blooms will ters, lakes are more than awake un and Cavaliere have been the first standing future water quality and be affected in turn. to find evidence that denitrifica- for better managing our water re-

over the world - but particularly so in Saskatchewan, where cold weather creates challenges even for the bravest student." Baulch

With a plan to graduate soon and then pursue a post-doctoral fel-lowship, Cavaliere hopes to keep researching winter secrets hidder below the surface of lakes.

The next big question she and Baulch will tackle is the impact nitrification process is crucial for said Baulch, professor in the U of that climate change, with possible SSchool of Environment and Sus-shorter and milder winters, will have on the removal of nitrogen

"We expect lakes to become



UWaterloo

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results

Pollution reduction work can take decades to see

- **Stories**
- Comms workshop
- KM workshop







University of Waterloo professor says it can take up pollution reduction

17 9:55 AM ET | Last Updated: Augu



WATER INSTITUTE

Water Institute » News » 2018 » May »

Global Water Futures meeting mobilizes Waterloo researchers tackling climate change

TUESDAY, MAY 29, 2018



Futures (GWF) project for a university-wide meeting to share updates and meet new members of the GWF

Professor Philippe Van Cappellen, Water Institute member and the GWF program co-ordinator at Waterloo, chaired the meeting and delivered a presentation on the nine Waterloo-led projects aimed at enhancing the resilience and adaptive capacity of Canada's water resources in the face of climate change.

Last week, the Water Institute gathered University of Waterloo researchers involved in the Global Water



WATER INSTITUTE

Water Institute »

Drones and satellites: a smart watershed network takes to the sky

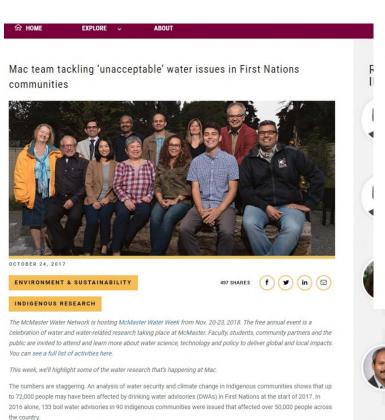


Claude Duguay, Professor, Faculty of Environment, Department of Geography and Environmental Management

Canada's water resources span an enormous range in geography, climate and ecosystems. Increasing threats to water quantity and quality from climate change, urbanization and resource development require a transformation in how environmental data is collected, integrated, analyzed and communicated. Water managers, decision makers and researchers are seeking more advanced tools to help them effectively diagnose, predict and

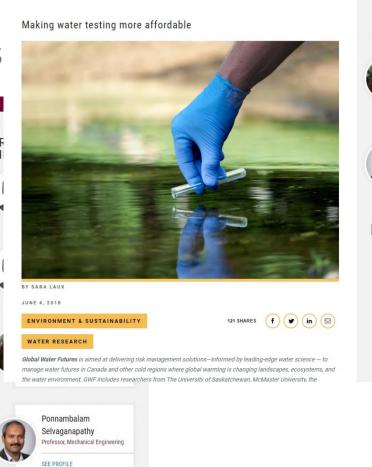
adapt to change. Responding to this need, Claude Duguay and his team are working with industry and end-users to build and test emerging technologies such as drones and sensors which will withstand subzero temperatures, and a microsatellite to collect data on water quality and quantity. The data collected

Six stories, of which 3: >4,500 website views >850 social media shares



"To say it's unacceptable, would be a serious understatement," says Dawn Martin-Hill, associate professor of

BRIGHTER WORLD



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RESEARCHERS FE IN THIS STORY

RESEARCH & INNOVATI



Dawn Martin-Associate Professo

JUNE 4. 2018

WATER RESEARCH

ENVIRONMENT & SUSTAINABILITY



Selvaganapat Professor, Mechani

SEE PROFILE









Six months ago McMaster PhD student Alanna Bodo had never used a power tool let alone built an electronic sensor. But with some instruction from researchers at the University of Montreal, and a lot of practise, Bodo has now built more

Helping forests survive and thrive in the face of climate change

than 120 'sap flow' sensors designed to measure transpiration, the process by which trees draw water from the ground and release it as vapour through their leaves, Simply put, it's how trees breathe.

The sensors are a critical piece of Bodo's research which aims to shed light on how the changing climate is affecting forests, and to identify forestry practices that could help trees not just survive, but thrive as they adapt to rising temperatures and increasingly dry conditions



Search Laurier

Wilfrid Laurier

- **Stories**
- Comms workshops
- Researcher meetings





/ Academics and Research / Research / Northern Research / Global Water Futures

Northern Research

Partnerships

GLOBAL WATER FUTURES

Northern Water Futures

Research Sites

Community Engagement

Yellowknife Office

Global Water Futures

Laurier was successful in partnering with the University of Saskatchewan, the University of Waterloo and McMaster University in accessing \$78 million over the next seven years to support Global Water Futures (GWF) through Canada's First Research Excellence Fund. Intended to cement Canada's leadership in cold regions water science, GWF is the largest university-led water research program funded worldwide and is one of the largest water science collaborations in the world. The goal of the program is to deliver risk-management solutions to manage water resources throughout Canada where global warming is changing landscapes, ecosystems, and the water environment.

With an exclusive focus on environmental issues facing Canada's North, the





Laurier researchers and Indigenous community partners working to address water security challenges

Jan. 21, 2019

Print | PDF

For Immediate Release

Cold Regions and Water

Kelly Munkittrick, Executive

E: kmunkittrick@wlu.ca

MEDIA CONTACTS:

Director

Waterloo - Water is at the centre of life and livelihoods in many Indigenous communities - yet many are experiencing major water-related changes and challenges. To help address those challenges, Wilfrid Laurier University scholars are working on two new research projects in partnership with Indigenous communities.

Global Water Futures (GWF), the world's largest university-led freshwater research program, has launched six new co-led projects across Canada to address urgent and growing water quality issues in Indigenous communities

On the land in Canada's North

Laurier partnership with Dehcho First Nations' Youth Ecology Camp helps engage youth in science and cultural traditions

STORY BY JOHN ZRONIK

Thousands of kilometres from Laurier's Ontario campuses, university researchers are helping grow youth connections to science and the land in the Northwest Territories.

Laurier this year formalized a partnership with Dehcho First Nations to participate in the Regional Dehcho Youth Ecology Camp, which each year takes youth on the land to connect with Indigenous elders, traditional knowledge holders, scientists and each other.

This year's camp took place from Aug. 27 to Sept. 1 at Willow Lake, Northwest Territories. Twelve youth aged 11 to 16 from across the communities of Dehcho First Nations attended.



Building awareness with key stakeholders

Federal Government: September visit/tour of Fisheries
 Minister Jonathan Wilkinson and Liberal water critic Francis
 Scarpaleggia – fall, 2018





Building awareness with stakeholders ...

News releases supporting GWF partnership initiatives:

- "USask and NRCan sign MOU to advance national water security" Nov. 27/2018
 - The MOU is a direct outcome of discussions between GWF and NRCan at the GWF Inaugural Science Meeting in June 2018 where the need and opportunity for greater collaboration was identified.
- "Global Water Futures gets U.N. recognition" Jan. 21/2019
 - USask-led Global Water Futures has been designated as one of only three Regional Hydroclimate Projects (RHP) in the world by the GEWEX (Global Energy and Water Exchanges) project of the United Nations World Climate Research Programme.

Building stakeholder awareness: GWF eNews

- Bi-monthly distribution
 - Deadline for next issue is March 15
- 1,510 subscribers
 - 56% increase in readership in 2018

Top locations by opens

I+I	Canada	844	82.4%
	USA	96	9.4%
	Germany	18	1.8%
*):	China	15	1.5%
	Indonesia	7	0.7%















GWF Affiliate Projects: Call for Proposals

Global Water Futures (GWF), the world's largest university-led freshwater research program, invites interested researchers to submit an application for a GWF Affiliate Project.

The purpose of these affiliated projects is to give opportunities to new and existing GWF researchers to either enhance existing research, or to present new research. These opportunities may contribute strategically towards the GWF vision, mission and goals. GWF seeks to provide in-kind support to these projects and to benefit from these linkages wherever possible.

Find out more





Engage GWF with issues of the day ...

- U.N. Climate Change Panel report interviews with John Pomeroy
- Floods, droughts and wildfires
 - National CBC series on "Water at Risk" Pomeroy interview on drought (March 22nd)
 - Op ed featuring John Pomeroy on Western Canadian wildfires
 - "USask study says more snow, earlier melt will challenge Arctic communities in future", Pomeroy and Krogh Jan. 18, 2019
- The Conversation (theconversation.com/ca) national academic newswire
 - "As a Water Crisis looms in Capetown: Could it happen in Canada?", Pomeroy, picked by Maclean's, >53,000 "reads"
 - Andrew Slaughter, several articles, > 65,000 reads
 - Grant Ferguson article in The Conversation on groundwater supply in U.S. >6,400 "reads" (PBS picked it up)

alobalwaterfutures.ca

"The Conversation" – national academic newswire



Example:

USask environmental researcher Doug Clark

>125,000 reads for one article – polar bears in the Arctic



Build a national conversation through web and other social media ...

- Twitter, LinkedIn, YouTube, Flickr, Instagram, webpages
- Incorporating video into social media



GWF Videos – tailored to partners

USask



Waterloo



McMaster



Laurier



Annual Science Meeting



Research





GWF on Twitter

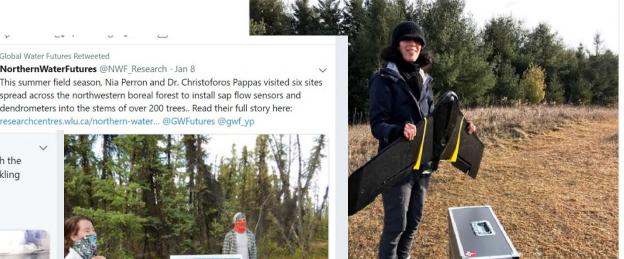
1,160 followers 869 tweets

893 likes

€ 30

Global Water Futures Retweeted

Transformative Technologies and Smart Watersheds @TT... · 20 Dec 2018 🗸 @ForoutanMari is back in the field after successfully completing her PhD comprehensive exam! Congrats Mari!



Canada's vital water resources are key to building & supporting our communities,

and we're working to find solutions to protect them against the effects of climate change. Yesterday in Regina, I sat down with leaders in fresh water management -

♥ 1.1K 🖾

1 Global Water Futures Retweeted

my thanks for the discussion.

Justin Trudeau 🤣 @JustinTrudeau · Jan 12

r Futures Retweeted

lietti @JayFamiglietti · Jan 16



Clobal Water Futures Retweeter

NorthernWaterFutures @NWF Research · Jan 8

spread across the northwestern boreal forest to install sap flow sensors and dendrometers into the stems of over 200 trees.. Read their full story here: researchcentres.wlu.ca/northern-water... @GWFutures @gwf yp



GWF Photography

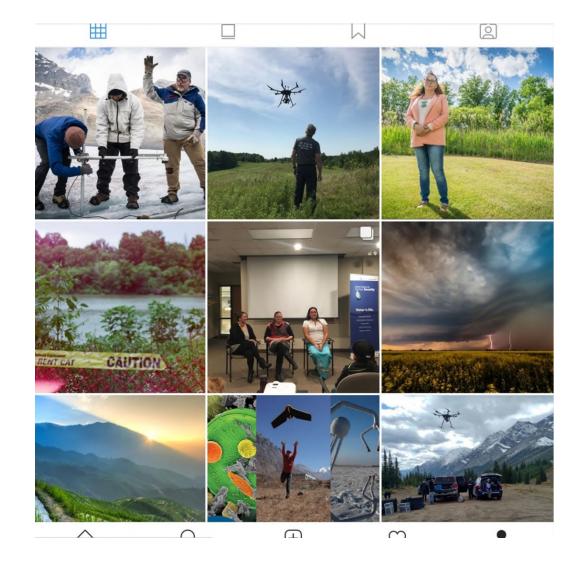
- Photo contest (March 31)
- Instagram



Global Water Futures proudly presents:

DISCOVER PHOTO CONTEST

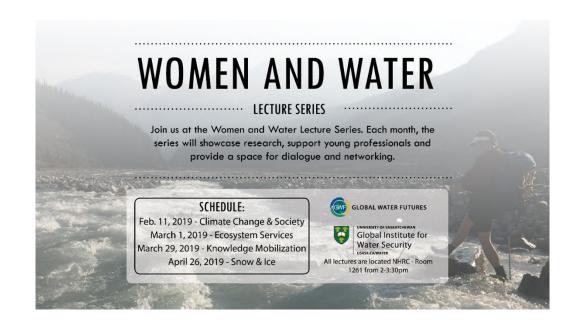
FOR MORE INFO VISIT GLOBALWATERFUTURES.CA





GWF Lecture Series

- Women and Water Lecture Series (next is Feb. 11)
- **Distinguished Lecture Series** (new season starts Sept. 2019)
- **Knowledge Mobilization Series** (next is Feb. 15 featuring KM and Comms)





2018 Distinguished Lecture Series

September

19: Ciaran Harman - John Hopkins University 26: Martyn Clark, National Center for Atmospheric Research

October

3: Witold Krajewski, University of Iowa 10: Adam Ward, Indiana University 17: Barbara Sherwood-Lollar, University of Toronto (location: Convocation Hall) 24: Steven Loheide, University of Wisconsin-Madison 31: Andras Bardossy, University of Stuttgart

November

7: Alex Konings, Stanford University 21: Jennifer McIntosh, University of Arizona

These events are free and open to the public All lectures will be held on Wednesdays in the NHRC Seminar Room at 3:30 p.m. unless otherwise stated



Global Institute for Water Security





WEBINAR SERIES

The KM Core Team is hosting a series of webinars to increase awareness about the value and principles of KM.

The webinar series will facilitate: · your understanding of what

- how to engage specific group of end-users
- can even help with yearly report!

February 15, 2019

KM, Communications and Outreach: What's the difference and how they complement

12 pm/2pm

March 15, 2019 Evaluating the reporting the success of KM 12 pm/2pm

> April 12, 2019 Youth engagement

12 pm/2pm











Support recruitment ...

- New hires have learned of GWF through:
 - our conference exhibits
 - GWF website
 - recruitment ads
 - media
 - brochures



GWF Exhibits 2018

AGU

(December, Washington, DC)

Canadian Water Research Accoc.

(September, Saskatoon)

Water Week

(November, Waterloo)

Water Security Conference

(July, Toronto)

GWF Open Science Meeting

(July, Hamilton and Six Nations)

World Water Day

(March 22 across Canada)



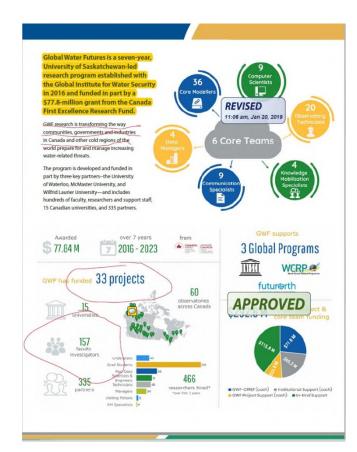


GWF brochures





V.2 (2018)



V.3 (coming soon)



We need your help!

- Send story ideas, and progress reports to your institutional communicators
- Send potential GWF newsletter items
- Engage with your project Twitter account and retweet our GWF twitter news
- Notify us of upcoming publications
- Take and share photos and video in the field
- Share student success stories













We need your help!

- Participate in media interviews
- Write for The Conversation
- Link to the GWF website from your own faculty pages
- Be a GWF ambassador -- mention GWF in media interviews, invited talks, conferences, etc.
- Share "user group" testimonials how has your research helped them?















Who we are

Our core team:

- Kathryn Warden, University of Saskatchewan (Chair)
- Mark Ferguson, University of Saskatchewan
- Morgan Braaten, (Outreach), University of Saskatchewan
- Lori Dillon, McMaster University
- Allie Dusome, University of Waterloo
- Shawna Reibling, Wilfrid Laurier University
- Karen Kawawada, Wilfrid Laurier University













Questions?



