



Global Water Futures Inception Meeting – GWF Projects and GWF Core Teams

Balsillie School of International Affairs
67 Erb St W, Waterloo, ON
January 21-23, 2018

Room 1-42

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PURPOSE

The purpose of this inception meeting is to review progress in the inception of projects and core teams, and discuss programme needs and plans for the future. As this is also the first meeting of the GWF operations committee, it will be an opportunity to review the operational status, reporting, and plans across GWF.

AGENDA

Time	Lead Presenters	Activity
Sunday, January 21		
3:00 – 5:00 pm	Phani Adapa, Chris DeBeer, Kelly McShane	GWF Reporting Information and Discussion session – Secretariat, Core KM, communications and Data teams, and Project Managers (Representatives from GWF projects may attend)
6:00 – 9:00 pm	Welcome Social for all GWF Inception Meeting Attendees Abe Erb, 15 King St S, Waterloo, ON N2J 1N9	
Monday, January 22		
7:45 – 8:30 am	Registration, coffee, snacks	
8:30 – 8:40 am	Robert Gordon	Welcoming address by the Vice-President Research, Wilfrid Laurier University
8:40 – 9:10 am	John Pomeroy	Introduction, GWF overview, and aims & objectives for the meeting
Overview of User Question-Led Projects: 7 min per project + 3 min Q & A		
Chair: Sean Carey		
9:10 – 9:20 am	Jennifer Baltzer	Northern Water Futures
9:20 – 9:30 am	Mark Servos (on behalf of John Giesy)	Next Generation Solutions to Ensure Healthy Water Resources for Future Generations



9:30 – 9:40 am	Helen Baulch	Forecasting Tools and Mitigation Options for Diverse Bloom-Affected Lakes
9:40 – 9:50 am	Merrin Macrae	Agricultural Water Futures in Canada: Stressors and Solutions
9:50 – 10:00 am	Chris Spence	Prairie WATER: Sustainable Water Management for Civic and Provincial Policy Makers and Urban, Rural, and Indigenous Communities
10:00 – 10:10 am	Dawn Martin-Hill	Co-creating of Indigenous Water Quality Tools
10:10 – 10:40 am	Break	
Chair: Jennifer Baltzer		
10:40 – 10:50 am	Mike Waddington	Boreal Water Futures
10:50 – 11:00 am	Saman Razavi	Integrated Modelling for Prediction and Management of Change in Canada's Major River Basins
11:00 – 11:10 am	Sean Carey	Mountain Water Futures
11:10 – 11:20 am	Nandita Basu	Lake Futures – Enhancing Adaptive Capacity and Resilience of Lakes and their Watersheds
11:20 – 11:30 am	Claude Duguay	Transformative Sensor Technologies and Smart Watersheds for Canadian Water Futures
11:30 – 11:40 am	Ron Stewart, and Francis Zwiers	Climate-Related Precipitation Extremes
11:40 am – 12:00 noon	<i>Discussion and synthesis</i>	
12:00 noon – 1:00 pm	Lunch	
Overview of Basic Science, Big Data, and Decision Tools Projects: 5 min per project + 1 min Q & A		
Chair: Dave Rudolph		
1:00 – 1:06 pm	Lalita Bharadwaj	A Proof of Concept Study: Agent Based Modeling as a tool to Investigate Comprehensive Indigenous Health Impacts of Flooding.
1:06 – 1:12 pm	Philip Loring	Diagnosing policy and governance effectiveness for agricultural water management during times of change
1:12 – 1:18 pm	Rob de Loë	Linking Water Governance in Canada to Global Economic, Social and Political Drivers
1:18 – 1:24 pm	Colin Robertson	Global Water Citizenship - Integrating networked citizens, scientists and local decision makers
1:24 – 1:30 pm	Grant Ferguson	Old Meets New?: Subsurface Hydrogeological Connectivity and Groundwater Protection
1:30 – 1:36 pm	Brent Wolfe	SAMMS: Sub-Arctic Metal Mobility Study

1:36 – 1:42 pm	Kevin Lamb	Evaluation of ice models in Large Lakes using Three Dimensional Coupled Hydrodynamic-Ice Models
1:42 – 1:48 pm	Mark Servos	Linking multiple stressors to adverse ecological responses across watersheds
1:48 – 1:54 pm	Fereidoun Rezanezhad	Winter Soil Processes in Transition
1:54 – 2:00 pm	Altaf Arain	Southern Forests Water Futures
2:00 – 2:06 pm	Yanping Li	Short-duration extreme precipitation in future climate
2:06 – 2:12 pm	Julie Thériault	Storms and Precipitation Across the continental Divide Experiment (SPADE)
2:12 – 2:18 pm	Bruce MacVicar	Linking stream network process models to robust data management systems for the purpose of land-use decision support
2:18 – 2:24 pm	Ravi Selvaganapathy	Sensors and Sensing Systems for Water Quality Monitoring
2:24 – 2:30 pm	Paul Jones	'Omic' and chemical fingerprinting methodologies using ultrahigh-resolution mass spectrometry for geochemistry and healthy waters
2:30 – 3:00 pm	<i>Discussion and synthesis</i>	
3:00 – 3:30 pm	Break	
Overview of GWF Core Teams and their Work Plans		
Chair: Helen Baulch		
3:30 – 4:10 pm	Core Modelling & Forecasting Team - Al Pietroniro	Forecasting and Modelling Team – structure and plans
4:10 – 4:40 pm	Core Knowledge Mobilization Team – Lawrence Martz	Knowledge Mobilization Team - structure and plans
4:40 – 4:55 pm	Core Computer Science Team – Kevin Schneider	Computer Science Team - structure and plans
Chair: Ron Stewart		
4:55 – 5:10 pm	Data Management Team – Branko Zdravkovic	Data Team - structure and plans
5:10 – 5:25 pm	Communications Team – Kathryn Warden	Communications Team - structure and plans
5:25 – 5:35 pm	UofS Technical Team – John Pomeroy	Technical Teams – what projects do they link to, what sites, what activities?
5:35 – 5:45 pm	Waterloo Technical Team – Dave Rudolph	Technical Teams – what projects do they link to, what sites, what activities?
5:45 – 5:55 pm	Wilfrid Laurier Technical Team – Kelly Munkitrick	Technical Teams – what projects do they link to, what sites, what activities?

5:55 – 6:05 pm	McMaster Technical Team leads – Sean Carey	Technical Teams – what projects do they link to, what sites, what activities?
6:05 – 6:30 pm	Reception	
6:30 – 8:00 pm	Dinner <i>7:30 – 8:00 pm: John Pomeroy, Chris and KM team to meet with the GWF Café Discussion Leads and Rapporteurs to outline the process and expectations for Tuesday</i>	
Tuesday, January 23		
7:45 – 8:30 am	Coffee, snacks	
8:30 – 8:50 am	John Pomeroy, Chris DeBeer	Day-2 introduction and plans; Preliminary synthesis and mapping of linkages, and directions for <i>GWF Café</i>
Rooms 1-42, 1-25, and 1-27		
8:50 – 10:30 am	<p>GWF Café: workshop participants will spend 15 minutes each at a series of break-away tables, where each table will hold a focused discussion on specific topics/issues. Each table will include a discussion lead from the SMC and/or core team membership, and a rapporteur.</p> <p>Discussion leads and rapporteurs: The role will involve leading, recording, and providing a synthesis of discussions to inform what is occurring on these various topics, what should be occurring, and what are we planning? What gaps are there to fill? What is the nature of engagement with users & stakeholders?</p> <p>Topics/issues:</p> <ol style="list-style-type: none"> 1. Modelling/computations – Flood/ drought forecasting (Discussion Lead – Al Pietroniro; Rapporteur – Saman Razavi) 2. Observations, sensors & remote sensing – Observatories and field campaigns (Discussion Lead – Dave Rudolph; Rapporteur – Claude Duguay) 3. Environment – conservation; ecological flow needs, etc. (Discussion Lead – Jennifer Baltzer; Rapporteur – Helen Baulch) 4. Agriculture and forestry – Land management (Discussion Lead – Bruce MacVicar; Rapporteur – Merrin Macrae) 5. Governance – Evolving governance, integrate adaptive governance into science (Discussion Lead – Phil Loring; Rapporteur – Roy Brouwer) 6. Urban and rural communities – water quality and groundwater (Discussion Lead – Kevin Boehmer; Rapporteur – Philippe van Cappellen) 7. First Nations – source water protection (Discussion Lead – Merrell-Ann Phare; Rapporteur – Dawn Martin-Hill) 	

	<p>8. Industry – hydro-power, insurance, finance, etc. (Discussion Lead – Julie Thériault; Rapporteur – Ronald Stewart)</p> <p>9. Natural resources – mining legacy issues (Discussion Lead – Mike Waddington; Rapporteur – Sean Carey)</p> <p>10. Knowledge mobilization – best practices (Discussion Lead – Kara Hearne; Rapporteur – Lawrence Martz)</p> <p>11. Crowdsourcing and citizen science (Discussion Lead – Stephanie Merrill; Rapporteur – Graham Strickert)</p>
10:30 – 11:00 am	Break
11:00 am – 12:30 pm	GWF Café continued
12:30 – 1:30 pm	Lunch
1:30 – 2:00 pm	GWF Café continued
2:00 – 3:00 pm	GWF Café rapporteurs – Reports and summary of discussion from each table
3:00 – 3:30 pm	Break
3:30 – 4:15 pm	Open discussion on strategic priorities, gaps to be addressed, and plans moving forward
4:15 – 4:45 pm	Discussion on GWF International linkages and strategy
4:45 – 4:50 pm	Information on GWF Annual Science Meeting – John Pomeroy
4:50 – 5:00 pm	Final closing remarks – John Thompson, Associate Vice-President Research, University of Waterloo

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