



THE WATER INSTITUTE • UNIVERSITY OF WATERLOO

Research Symposium 2015

THURSDAY, APRIL 30th

FINAL PROGRAM

Session 1: Opening Plenary (Davis Centre, Room 1350)

Time	Item
8:00 to 8:30	<i>Registration and Continental Breakfast</i>
8:30 to 8:45	Opening and Welcoming Remarks Dr. Bob Gillham Executive Director, the Water Institute
8:45 to 10:15	Water Security for First Nations in Canada <i>Chaired by Dr. Susan Elliott, Professor, Department of Geography and Environmental Management</i> Irving Leblanc Special Advisor – Housing, Infrastructure and Emergency Issues Management, Assembly of First Nations Dr. Steve E. Hrudey Professor Emeritus, University of Alberta Merrell-Ann Phare Executive Director/Legal Counsel, Centre for Indigenous Environmental Resources
10:15 to 10:45	<i>Coffee and Networking Break</i>

Session 2: Breakout Sessions (Davis Centre)

Time/Room	Track	Topic	Presenter
10:45 to 12:15 (DC 1350)	Cold Regions <i>Chaired by</i> Dr. Heidi Swanson Assistant Professor, Department of Biology	<i>Northern Voices, Northern Waters: NWT Water Stewardship Strategy</i>	Dr. Jennifer Fresque-Baxter Watershed Management Advisor, Government of the Northwest Territories
		<i>Productivity and Water Availability: Balancing the Role and Needs of Boreal Peatlands in Landscape Reclamation</i>	Dr. Richard Petrone Professor, Department of Geography and Environmental Management
		<i>Indigenous Livelihoods and Nature- based Tourism within an Arctic Riverscape</i>	Dr. Bryan Grimwood Assistant Professor, Department of Recreation and Leisure Studies



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Time/Room	Track	Topic	Presenter
10:45 to 12:15 (DC 1302)	Water Sustainability: Waterloo Region Chaired by Dr. Emil Frind <i>Professor Emeritus, Department of Earth and Environmental Sciences</i>	<i>A New Era for Groundwater Resource Management In Waterloo Region</i>	Eric Hodgins Manager Hydrogeology and Source Water, Region of Waterloo
		<i>Source Protection Water Budget: Groundwater Management in the Waterloo Moraine</i>	Paul Martin Principal Consultant and Director, Matrix Solutions Inc.
		<i>The Waterloo Moraine: A Watershed Perspective</i>	Dr. Barbara Veale Manager of Planning and Regulation Services, Conservation Halton

Lunch and Graduate Student Poster Exhibition (Math 3 Atrium)

Time	Item
12:15 to 1:30	Lunch and Graduate Student Poster Exhibition

Session 3: Emerging Scholars (Davis Centre, Room 1350)

Time	Item	Participants
1:30 to 1:45	Three-Minute Theses	Jeffrey Leon , MSc candidate, Department of Earth and Environmental Sciences, <i>"The Use of Metal Isotopes to Improve Groundwater Remediation Strategies"</i> Bipro Ranjan Dhar , PhD candidate, Department of Civil and Environmental Engineering, <i>"Turning Wastewater Treatment Plant into Energy Factory with Bug Battery"</i> Cheryl Soulliere , MSc candidate, Department of Biology, <i>"Regulation of Rainbow Trout Innate Immunity: The Pro-inflammatory Response"</i>
1:45 to 2:00	Presentation of the 2014/15 Stantec, Golder Associates and AECOM Graduate Scholarships	Maricor Arlos , PhD candidate, Department of Biology Kai Liu , MSc candidate, Department of Earth and Environmental Sciences Gregory Lui , PhD candidate, Department of Chemical Engineering Colin McCarter , PhD candidate, Department of Geography and Environmental Management Ye Zhou , MASc candidate, Department of Civil and Environmental Engineering



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Session 4: Breakout Sessions (Davis Centre)

Time	Track	Topic	Presenter
2:00 to 3:30 (DC 1350)	Urbanization Chaired by Dr. Philippe Van Cappellen Canada Excellence Research Chair in Ecohydrology	<i>Failure is an Option: Lessons Learnt from Urban Water Projects in the Global South</i>	Dr. Carrie Mitchell Assistant Professor, School of Planning
		<i>Sediment Transport as an Indicator of Resilience and the Success of Restoration Outcomes in Urban Streams</i>	Dr. Bruce MacVicar Assistant Professor, Department of Civil and Environmental Engineering
		<i>Sweet Waters: Artificial Sweeteners as Tracers of Wastewater in the Environment</i>	Dr. John Spoelstra Research Scientist, Environment Canada
2:00 to 3:30 (DC 1302)	Nanotechnology Chaired by Dr. Arthur Carty Executive Director, Waterloo Institute for Nanotechnology	<i>Solar Photocatalytic Treatment of Organic Contaminants in Canadian Oil Sands Process-Affected Water</i>	Dr. Frank Gu Associate Professor, Department of Chemical Engineering
		<i>Microfluidics and Lab-on-a-Chip Devices for Water Sensing and Treatment</i>	Dr. Carolyn Ren Associate Professor, Department of Mechanical and Mechatronics Engineering
		<i>Towards Detection of Pathogens in Drinking Water: Sample Preparation- on-a-Chip</i>	Dr. John Yeow Associate Professor, Department of Systems Design Engineering
3:30 to 4:00	<i>Coffee and Networking Break</i>		

The Water Institute RBC Distinguished Lecture 2015 (Math 3, Room 1006 & Atrium)

Time	Item	Participants
4:00 to 4:20	Presentation of the 2014/15 RBC Water Scholarships	John Clifford Vice President Commercial Financial Services RBC Royal Bank
4:20 to 5:30	Distinguished Lecture <i>Challenges for Water Security in the Poor's World:</i> <i>The agenda for research and policy to manage water scarcity, plenty, pollution and waste in an age of climate risk</i>	Dr. Sunita Narain Director General, Centre for Science and Environment, New Delhi, India
5:30 to 7:00	Reception and Graduate Student Poster Exhibition	