

Oral Program

Sunday 10 th September 2017			
15:00-17:00	Author Workshop Trillium Suite		
16:00-18:00	Registration Grand Ballroom Lobby		
18:00-19:30	Welcome Reception Viking Suite		
Monday 11 th September 2017			
08:00-09:00	Registration Grand Ballroom Lobby		
09:00-09:10	Opening Remarks Grand Ballroom		
09:10-09:40	Keynote 1 Tove Larsen , Eawag, Zurich – Emerging Solutions to the Water Challenges of an Urbanizing World		
09:40-10:10	Keynote 2 Ana Deletic , Monash University – What is the Value of Nature Based Urban Water Systems?		
10:10-10:40	Refreshment Break Kitchener Suite		
10:40-12:20	Parallel Session 1A: Global resilient cities Session chair: Ana Deletic Room: Grand Ballroom	Parallel Session 1B: Watershed-based water systems Session chair: Hiroaki Furumai Room: Viking Suite	Parallel Session 1C: IWREC – Memorial session to Steven Renzetti Session chair: Quentin Grafton Room: Trillium Suite
10:40-11:00	[1A.1] Water for the new normal: Water use restrictions and their impact on infrastructure vulnerability in an era of climate change S. Finley*, N. Basu, <i>University of Waterloo, Canada</i>	[1B.1] Validating catchment scale models of riverbank erosion to inform rehabilitation scenarios J.M. McMahon*, J.M. Olley, A.P. Brooks, J.C.R. Smart, C.W. Rose, G. Curwen, J. Spencer, B. Stewart-Koster, <i>Griffith University, Australia</i>	[1C.1] V. Adamowicz – Introduction to the memorial session in honour of Steven Renzetti
11:00-11:20	[1A.2] Evaluation of water demand management contribution towards improving efficiency in southern African cities A. Ndeketeya*, M. Dundu <i>University of Johannesburg, South Africa</i>	[1B.2] TBC	[1C.2] The co-evolution of water resource economics and water resource management E. Ansink ¹ , J. Janmaat ² , A. Michelsen ³ , J. Peterson ⁴ , S. Scheierling ⁵ , K. Schwabe ⁶ , G. Taylor ⁷ , G. Torrell ⁸ ¹ <i>Universiteit Utrecht, The Netherlands</i> , ² <i>The University of British Columbia, Canada</i> , ³ <i>Texas A&M University, USA</i> , ⁴ <i>University of Minnesota, USA</i> , ⁵ <i>World Bank, USA</i> , ⁶ <i>University of California Riverside, USA</i> , ⁷ <i>University of Idaho, USA</i>
11:20-11:40	[1A.3] Institutional inertia: challenges in urban water management on the path towards a 'water-sensitive' Surabaya, Indonesia M. Gnadl ¹ , F. Bichai ^{2,3} , K. Schwartz ^{1,2} ¹ <i>University of Amsterdam, The Netherlands</i> , ² <i>UNESCO-IHE Institute for Water Education, The Netherlands</i> , ³ <i>Polytechnic School of Montreal, Canada</i>	[1B.3] Intelligent decision support system to plan, manage and optimize water quality monitoring programs based on a participative approach S. Behmel ¹ , M. Damour ² , R. Ludwig ^{3,1} , M.J. Rodriguez ¹ ¹ <i>Université Laval, Canada</i> , ² <i>DATALEA, France</i> , ³ <i>Ludwig Maximilian Universität, Germany</i>	[1C.3] A theoretical interpretation of water authorities pricing strategies for irrigated agriculture in the absence of water metering A. Lika*, F. Galioto, D. Viaggi <i>University of Bologna, Italy</i>
11:40-12:00	[1A.4] Degradation and regeneration of urban rivers V.P. Santos, A.S. Schueler* <i>Universidade Federal Rural do Rio de Janeiro, Brazil</i>	[1B.4] Groundwater resource mismanagement in the plain of Naples (southern Italy): A hydrological and socio economic analysis V. Allocca ² , S. Coda ² , P. De Vita ² , A. Iorio ² , E. Marzano ¹ , R. Viola ² ¹ <i>University of Naples Parthenope, Italy</i> , ² <i>University of Naples Federico II, Italy</i>	[1C.4] Financial and institutional sustainability of Water Funds : An analysis of determining factors J.J. Kok*, M.A.J. Altaminaro <i>Deltares, The Netherlands</i>

12:00-12:20	[1A.5] Suburban areas as a new challenge in Integrated Urban Water Management in metropolitan areas of Polish second tier cities K.D. Mrozik, Poznan University of Life Sciences, Poland	[1B.5] Scenario evaluation of watershed-based water use system for sustainability H. Furumai, University of Tokyo, Japan	[1C.5] The extent of the payment for ecosystem services market: Green infrastructure and the Panama canal watershed V. Adamowicz*, A. Entem, M. Rouhi Rad, L. Calderon-Etter, P. Lloyd-Smith, E. Fenichel University of Alberta, Canada
12:20-13:40	Lunch & Poster Session 1 Kitchener Suite		
13:40-15:20	Parallel Session 2A: Centralized versus decentralized Urban Water Systems Session chair: Tove Larsen Room: Grand Ballroom	Parallel Session 2B: Water use efficiency in agriculture Session chair: Günter Blöschl Room: Viking Suite	Parallel Session 2C: IWREC – Water valuation Session chair: Jean-Christoph Perea Room: Trillium Suite
13:40-14:00	[2A.1] The optimal degree of centralisation for wastewater infrastructures S. Eggimann* ¹ , B. Truffer ^{2,3} , M. Maurer ^{2,4} ¹ University of Oxford, UK, ² Swiss Federal Institute of Aquatic Science and Technology, Switzerland, ³ Utrecht University, The Netherlands, ⁴ Institute of Civil, Environmental and Geomatic Engineering, Switzerland	[2B.1] Evolution of agricultural water use in India: A systems approach T. Hora*, N.B. Basu, University of Waterloo, Canada	[2C.1] Floods and droughts: Eliciting customer willingness-to-pay and adverse event likelihood Diane Dupont
14:00-14:20	[2A.2] Performance evaluation of BWRO based decentralized water treatment system for small-scale water supply facility J.S. An*, W.S. Jung, J.Y. Park, H.J. Oh, Korea Institute of Civil Engineering and Building Technology (KICT), Republic of Korea	[2B.2] Factors affecting efficiency of rainwater use in livestock production in Ethiopian highlands K. Gunte, International Water Management Institute, Ethiopia	[2C.2] Demand for drinking water infrastructure in developing countries T.J. Guilfoos*, E. Uchida, S.C. Hayden, V. Oyanedel Craver University of Rhode Island, USA
14:20-14:40	[2A.3] The hybridized anaerobic baffled reactor: Innovative decentralized system H. Fadel, Misr Higher Institute for Engineering and Technology, Egypt	[2B.3] Optimization of virtual water trade in agricultural sector in Iran S. Yosefi, J. Attari*, A. Moridi Shahid Beheshti University, Iran	[2C.3] Cost function approach to water protection in forestry J. Miettinen*, M. Ollikainen ¹ , M. Nieminen ² , L. Valsta ¹ ¹ University of Helsinki, Finland, ² Natural Resources Institute Finland, Finland
14:40-15:00	[2A.4] Rethink the water cycle in the State of Qatar using sea water toilet flushing S.G. Hafiz*, H.R. Mackey, S.G. Al-Ghamdi, Hamad Bin Khalifa University (HBKU), Qatar	[2B.4] Gross economic efficiency of water use in agriculture and water saving farm plans: Case study of Punjab, India A. Sharma, S. Sirohi, D. Pandey, R.H. Devi*, S.V. Singh, National Dairy Research Institute, India	[2C.4] Valuation of water purification services of forests: Panel data evidence from South Africa D.G. Kutela* ¹ , J. Turpie ¹ ¹ University of Cape Town, South Africa, ² University of Cape Town, South Africa
15:00-15:20	[2A.5] Simulating decision rules for the adoption of decentralised water technologies A.C. Castonguay* ¹ , C. Ulrich ¹ , M.S. Iftekhar ² , A. Deletic ¹ ¹ Monash University, Australia, ² The University of Western Australia, Australia	[2B.5] Economic evaluation of upstream/downstream externalities of Egypt's Nile-fed agri-linked systems of agriculture, aquaculture and fisheries; evidence for policy makers S.M. Murphy*, A.N. Nasr-Allah, D.K. Kenawy, M.D. Dickson WorldFish, Egypt	[2C.5] Forests for water: A critical review and meta-analysis of economic approaches to the complex interactions between forest management and watershed services P. Ovando* ¹ , R. Brouwer ^{2,1} ¹ Swiss Federal Institute for Aquatic Science and Technology (Eawag), Switzerland, ² University of Waterloo, Canada

15:20-15:40	Refreshment break Kitchener Suite
15:40-17:00	The Water Institute RBC Distinguished Lecture Grand Ballroom
17:00-18:30	Reception Kitchener Suite

Tuesday 12th September 2017			
09:00-09:30	Keynote 3 Arjen Hoekstra , University Twente – Water Footprint Reduction in a Circular Bio-Based Economy		
09:30-10:00	Keynote 4 Reinhard Hübner , Investment Manager at SKion GmbH – Making Innovation Happen - The Market Perspective		
10:00-10:30	Refreshment Break Kitchener Suite		
10:30-12:10	Parallel Session 3A: Resource recovery in wastewater Session chair: Mark van Loosdrecht Room: Grand Ballroom	Parallel Session 3B: Governance of water technology innovation Session chair: Rob de Loë Room: Viking Suite	Parallel Session 3C: IWREC – Hydro-economic modelling Session chair: John Janmaat Room: Trillium Suite
10:30-10:50	[3A.1] Potential and bottlenecks of alginate-like extracellular polymers from aerobic granular sludge Y. Lin*, L. Asveld, M. Schaafsma, A. Nieuwenhuijzen, M.C.M. van Loosdrecht, K. Ampe, J. Zlopasa, P. Roeleveld, <i>Delft University of Technology, The Netherlands</i>	[3B.1] Mission-based corporate sustainability: The model of Aguas de Barcelona M. Bastons, C. Rey, J. Armengou* <i>Universitat Internacional de Catalunya, Spain</i>	[3C.1] Economy-wide repercussions of agricultural water buyback C.D. Pérez-Blanco* ^{1,2} , G. Standardi ¹ ¹ Fondazione Eni Enrico Mattei, Italy, ² Centro Euro-Mediterraneo sui Cambiamenti Climatici, Italy
10:50-11:10	[3A.2] Comparative economic and environmental impact assessment of sewage sludge treatment via AnMBR and PHA production for resource recovery A. Martin-Ryals* ¹ , L. Schideman ¹ , J. Dosta ² , J. Mata-Alvarez ² ¹ University of Illinois at Urbana-Champaign, USA, ² University of Barcelona, Spain	[3B.2] Feasibility of a nature based solution for reclamation of brackish water sources through developing regional multisector partnerships H.J. Cappon* ¹ , C.K. Groot ^{1,2} , J-M. Buijs ¹ , V.A. Klap ³ , ¹ HZ University of Applied Sciences, The Netherlands, ² Dow Benelux B.V., The Netherlands, ³ Province of Zeeland, The Netherlands	[3C.2] Optimal resource extraction with hazardous waste production and an environmental bond S. Aghakazemjourabaf*, M.C. Insley, <i>University of Waterloo, Canada</i>
11:10-11:30	[3A.3] Evaluation of technical and financial feasibility of energy recovery from drinking water and wastewater systems L. Zarembo*, J. Carmichael <i>Metro Vancouver, Canada</i>	[3B.3] Are public or private measures most efficient to combat drought? S. Reinhard* ¹ , A. Wooning ² ¹ Wageningen Economic Research, The Netherlands, ² Rijkswaterstaat, The Netherlands	[3C.3] Hydro-Economic modelling in mining regions: A case study in the Aconcagua catchment J. Ossa-Moreno*, N. McIntyre, G. Keir, <i>The University of Queensland, Australia</i>
11:30-11:50	[3A.4] Conversion and storage of renewable energy via microbial methanation of H₂ / CO₂ in thermophilic anaerobic trickle bed reactors D. Strübing* ¹ , B. Huber ² , M. Leubnh ² , J.E. Drewes ¹ , K. Koch ¹ ¹ Technical University of Munich, Germany, ² Bavarian State Research Center for Agriculture, Germany	[3B.4] Serious game play to support cross-boundary collaborations and dynamic knowledge co-creation in a watershed context S. Jean* ¹ , W. Medema ¹ , J. Adamowski ¹ , C. Chew ³ , P. Delaney ^{3,2} , A. Wals ⁴ , ¹ McGill University, Canada, ² University of Waterloo, Canada, ³ DHI, Canada, ⁴ Wageningen University, The Netherlands	[3C.4] Optimal abatement of phosphorus eutrophication within a general equilibrium framework J. Grames* ¹ , R. Brouwer ² , K.J. Van Meter ² , N.B. Basu ² , A. Prskawetz ^{1,3} ¹ Vienna University of Technology, Austria, ² University of Waterloo, Canada, ³ Wittgenstein Centre (IIASA, VID/OAW, WU), Austria

11:50-12:10	[3A.5] Valorisation of wastewater and agricultural wastes through polyhydroxyalkanoates production with photosynthetic mixed cultures J.C. Fradinho ¹ , F. Rabino ² , J. Almeida ¹ , J.P. Aranha ¹ , A. Oehmen ¹ , M.A.M. Reis ^{*1} , ¹ Universidade NOVA de Lisboa, Portugal, ² Sapienza University of Rome, Italy	[3B.5] Drinking water source security risks and water meta-governance countermeasures in the three mega-regions of China M.J. Gao ^{*1,2} , J.M. Ren ¹ , T.W. Li ¹ , Z.Y. Ouyang ² , ¹ Ministry of Environmental Protection, China, ² Chinese Academy of Sciences, China	[3C.5] River sharing under asymmetric information Erik Ansink, Vrije Universiteit Amsterdam, The Netherlands
12:10-13:40	Lunch & Poster Session 2 Kitchener Suite		
13:40-15:20	Parallel Session 4A: Re-use of wastewater and storm water harvesting Session chair: Peter Huck Room: Grand Ballroom	Parallel Session 4B: Sustainable water financing Session chair: Alex Money Room: Viking Suite	Parallel Session 4C: IWREC – Managing water quality Session chair: Vic Adamowicz Room: Trillium Suite
13:40-14:00	[4A.1] Zero-discharge from a process treating domestic wastewater I. Kahraman ¹ , E. Dulekgurgen ² , G. Yilmaz ^{*1} , ¹ Istanbul University, Turkey, ² Istanbul Technical University, Turkey	[4B.1] Addressing the finance gap - using co-benefits from nature based solutions to leverage coastal adaptation J.J. Kok ^{*1} , M. de Bell ¹ , L. Bouwer ¹ , A. Bisaro ² , J. Hinkel ² , ¹ Deltares, The Netherlands, ² Global Climate Forum, Germany	[4C.1] A choice experiment study of policy scenarios for removing micropollutants from domestic wastewater T.P. Pham [*] , T.R. Rambonilaza, J.D. Dachary-Bernard, National Research Institute of Science and Technology for Environment and Agriculture (IRSTEA), France
14:00-14:20	[4A.2] Regeneration of activated carbon by plasma process for advanced water treatment M. Ju [*] , B.C. Kim, K.D. Park, B.G. Jung, J.S. Choi, Korea Institute of Civil Engineering and Building Technology (KICT), Republic of Korea	[4B.2] Long-term financial sustainability of water systems using the system dynamics approach A. Unger	[4C.2] Does improved water quality increase the value of houses? an Internet discrete choice experiment for three areas in the Netherlands R. Brouwer ¹ , S. Hess ³ , V. Linderhof ^{*2} , ¹ University of Waterloo, Canada, ² Wageningen University and Research, The Netherlands, ³ none, The Netherlands
14:20-14:40	[4A.3] Maximising benefits of alternative water sources towards sustainability in urban areas. A case of South Africa A. Ndeketeya [*] , M. Dundu University of Johannesburg, South Africa	[4B.3] Modelling water systems financial sustainability: Past, present and future M. Knight	[4C.3] Wastewater treatment and community participation: Contingent valuation approach V. Chopra, S. Das [*] , TERI University, India
14:40-15:00	[4A.4] Comparative cradle-to-grave life cycle assessment (LCA) of low impact development (LID) storm water management technologies A. Bhatt [*] , A. Bradford, B. Abbassi University of Guelph, Canada	[4B.4] Bridging the Gap: Financing water infrastructure A. Money, Smith School of Enterprise and the Environment, UK	[4C.4] The economic valuation of surface runoff supplemental irrigation in northern Ghana F.H. Kemeze, University of Ghana, Ghana
15:00-15:20	[4A.5] Municipal drinking water treatment and supply in 2050 - Where will we be? P. Huck, University of Waterloo, Canada	[4B.5] Artificial intelligence as a tool for automation engineering decisions when prioritizing water operational and capital activities R. Mirtorabi, Canada	[4C.5] Abatement technology search A-D. Nimubona ^{*1,3} , A. Leach ^{2,3} ¹ University of Waterloo, Canada, ² University of Alberta, Canada, ³ Cirano, Canada
15:20-15:50	Refreshment break Kitchener Suite		
15:50-17:30	Parallel Session 5A: Integrated decision-support tools Session chair: Arjen Hoekstra Room: Grand Ballroom	Parallel Session 5B: Social acceptance of technology innovation Session chair: Cecilia Tortajada Room: Viking Suite	Parallel Session 5C: IWREC – Managing groundwater Session chair: Roy Brouwer Room: Trillium Suite

15:50-16:10	<p>[5A.1] Every drop counts: Reducing the energy and climate footprint of Ontario's water use Dianne Saxe, <i>Environmental Commissioner of Ontario, Canada</i></p>	<p>[5B.1] Quality perceptions and water treatment behaviour at the household level A. Aksan*, W.F. Vasquez, <i>Fairfield University, USA</i></p>	<p>[5C.1] The shadow price of fossil groundwater S. Reinhard*¹, M.F.P. Bierkens^{2,3}, J.A. de Bruijn⁴, Y. Wada^{5,6} ¹Wageningen Economic Research, <i>The Netherlands</i>, ²Deltares, <i>The Netherlands</i>, ³Utrecht University, <i>The Netherlands</i>, ⁴Institute for Environmental Studies IVM, <i>The Netherlands</i>, ⁵IIASA, <i>Austria</i>, ⁶NASA Goddard Institute for Space Studies, <i>USA</i>, ⁷Columbia University, <i>USA</i></p>
16:10-16:30	<p>[5A.2] Developing the Great Lakes' Blue Economy: Water productivity, water depletion, and virtual water trade in the Great Lakes Basin Alex Mayer, <i>Michigan Technological University, USA</i></p>	<p>[5B.2] Assessing the communities acceptability of wastewater reuse as an alternative option for water management: A case study of Coimbatore District, Tamil Nadu S. Das*¹, K. Radhakrishnan¹, B. Madjid², ¹TERI University, <i>India</i>, ²Brgm, <i>French Geological Survey, India</i></p>	<p>[5C.2] When and where to intervene? Coastal nutrient loading, groundwater travel times, and estuary dynamics N. Merrill*, S. Balogh, A. Piscopo, K. Mulvaney, T. Hill, <i>US EPA, Atlantic Ecology Division, USA</i></p>
16:30-16:50	<p>[5A.3] Can open innovation and multi-scale computational modeling accelerate technology development in the water space? D. Santoro*^{1,2}, T. Mao^{1,3}, L. Gowman¹ ¹Trojan Technologies, <i>Canada</i>, ²Western University, <i>Canada</i>, ³University of Toronto, <i>Canada</i></p>	<p>[5B.3] Technology adoption in developing countries: A review of a bioswale implementation in a South African informal settlement L. Craig*^{1,2}, J.W.N. Tempelhoff², W.A.J. Nel¹, ¹University of South Africa, <i>South Africa</i>, ²North-west University, <i>South Africa</i></p>	<p>[5C.3] Sustainable management of groundwater-dependent-ecosystems with tradable permits J-C. Perea, <i>University Bordeaux - GREThA, France</i></p>
16:50-17:10	<p>[5A.4] Scenario design method using multi-objective optimization for consensus building on urban water use systems N. Kasui*¹, J. Nakatani¹, S. Maki², H. Furumai¹, ¹The University of Tokyo, <i>Japan</i>, ²National Institute of Environmental Studies, <i>Japan</i></p>	<p>[5B.4] Building effective planning support systems for green urban water infrastructure - practitioners' viewpoints and perceptions M. Kuller*, M. Farrelly, P.M. Bach, A. Deletic, <i>Monash University, Australia</i></p>	<p>[5C.4] Managing runoff reservoir supply risk using index insurance and ground water pumps: The case of the tono reservoir in Ghana F.H. Kemeze*¹, M.J. Miranda², J.K.M. Kuwornu³, H. Amin-Somuah¹, ¹University of Ghana, <i>Ghana</i>, ²The Ohio State University, <i>USA</i>, ³Asian Institute of Technology, <i>Thailand</i></p>
17:10-17:30	<p>[5A.5] Numerical models within Public Agencies: Comparison of strategies to access knowledge, software tools and update data R.T. Arnold*¹, M. Marchildon² ¹Grey Bruce Centre for Agroecology, <i>Canada</i>, ²Oak Ridges Moraine Groundwater Program, <i>Canada</i></p>	<p>[5B.5] Use of recycled wastewater for potable and non-potable use C. Tortajada, <i>National University of Singapore, Singapore</i></p>	<p>[5C.5] Assessing the value of investment decisions in groundwater protection and remediation technology: A global meta-analysis of groundwater quality valuation studies R. Brouwer, N. Neverre^{1,2} ¹University of Waterloo, <i>Canada</i>, ²The Water Institute, <i>Canada</i></p>
17:30-17:50	<p>[5A.6] Groundwater Scarcity Footprints (GSF): A GIS based methodology to assess seasonal and annual fluctuations of scarcity level K. Mahmood</p>	<p>[5B.6] Physico-chemical characterization of EPS-based biomaterial recovered from anammox granular waste sludge T. Lotti¹, E. Carretti², D. Berti², C. Lubello², F. Malpei¹, Y. Lin*¹, ¹Politecnico di Milano, <i>Italy</i>, ²University of Florence, <i>Italy</i></p>	
19:30-22:00	<p>Conference Gala Dinner (Optional Ticketed Event) The Tannery</p>		

AquaHacking Summit
Wednesday, 13 September 2017

07:30-08:00	Transportation to Venue from the Crowne Plaza Hotel
08:00-08:30	Registration & Breakfast
08:30-08:55	Six Nations of the Grand River traditional thanksgiving
08:55-09:05	Opening of 2017 AquaHacking Summit <ul style="list-style-type: none"> Word of welcome from Alex and Tyler Mifflin, aka The Water Brothers, Summit MCs AquaHacking co-founders welcome addressed by Nan-b, Philippe II, Louis-Alexandre and Philippe IV de Gaspé Beaubien
09:05-09:15	Opening Remarks by The Honourable Elizabeth Dowdeswell, Lieutenant Governor of Ontario
09:15-09:25	Introduction by US Consul General, Juan Alsace
09:25-09:30	Greetings from Feridun Hamdullahpur, President and Vice-Chancellor, University of Waterloo
09:35-10:20	Tapping into Lake Erie The rising generation of water experts share their #LakeErieConnect Platform <ul style="list-style-type: none"> Presentation by the 2017 AquaHacking Youth Delegation
10:20-10:35	Refreshment Break
10:35-11:20	Sound Carries Over Water The voices speaking out on water issues have multiplied and grown more forceful. Who is listening? What, if anything, is different as a result? <ul style="list-style-type: none"> Keynote Address by Peter Annin, author of the Great Lakes Water Wars
11:20-12:25	A Common (Water) front Who are the people and agencies affected by algae bloom, and how does it involve them? How do these groups respond and where do their efforts converge? Panelists: <ul style="list-style-type: none"> Sébastien Sauv�, Full professor, Department of Chemistry, University of Montreal Jill Ryan, CEO of Freshwater future Clark Hoskin, Manager, Tourism and Economic Development, Norfolk County John Paterson, Mayor of Leamington Bryan Gilvesy, CEO of ALUS Canada and Owner of YURanch Moderator: Tony Maas, FLOW Canada
12:25-12:30	A word from the de Gasp� Beaubien Foundation
12:30-13:45	Lunch
13:45-14:25	Joys and Challenges on the Water Adam van Koeverden lends his voice and his stories to deliver a compelling narrative on the ways water can foster competition, compassion and critical thinking, bringing them all to new levels. <ul style="list-style-type: none"> Keynote Address by Adam van Koeverden, two-time world champion Canadian sprint kayaker
14:25-14:30	AquaHacking Challenge: Behind the Scenes Watch the steps leading from then to now, and see what happened over 7 months!
14:30-15:30	On Balance Algae bloom is one of several major environmental threats. How does stopping algae bloom fit in with government and First Nations' overall responses to climate change? After their presentations, speakers will take questions from the rising generation on the work that remains to be done and staying in step with innovators. Panelists: <ul style="list-style-type: none"> Michael Goffin, Ontario Regional Director General for Environment and Climate Change Canada (invited) The Honourable Chris Ballard, Ontario Minister of the Environment and Climate Change Chief Ava Hill, Six Nations of the Grand River Rob de Lo�, Co-chair of the Great Lakes Water Quality Board at the International Joint Commission Moderator: Liza Fromer, Broadcast Journalist
15:30-15:45	Refreshment Break
15:45-15:55	Opening of 2017 AquaHacking Finals
15:55-16:00	2016 AquaHacking Challenge winner Where are they now? Reflections on making the most of the Challenge Info-Baignade, winners of the 2016 Challenge
16:00-17:00	Purpose. Innovation. Solutions. Finalists step up

	The 2017 Finalists put their work in the spotlight! <ul style="list-style-type: none"> • 2017 AquaHacking Challenge Finalists
17:00-17:20	Break and Hackers Trade Show Where speed dating meets open water! Hackers and potential backers get to know each other – fast!
17:20-17:35	2017 AquaHacking Award Ceremony The shape of things to come - Introducing the 2017 Challenge winners
17:35-17:40	Closing remarks by Philippe III de Gaspé Beaubien, President and CEO of the de Gaspé Beaubien Foundation
17:40-17:45	Closing Remarks by Roy Brouwer, Executive Director of the Water Institute of the University of Waterloo
17:45	Six Nations of the Grand River Traditional Thanksgiving
18:00	Transportation to Crowne Plaza Hotel