

## Day One - Track One

Wednesday, March 22<sup>nd</sup>, 2017

3:30 p.m. – 4:30 p.m.

## Stormwater Rate Implementation - A Panel Discussion

**Facilitators:** Ray Tufgar, AECOM and  
Michael Gregory, Computational Hydraulics International (CHI)

**Panelists:** Dr. Victoria Kramkowski, City of Mississauga  
Arun Hindupur, City of Guelph  
Matt Wilson, City of Kitchener  
Todd Chapman, City of Waterloo  
Robert Muir, City of Markham

### Facilitator Biographies



Ray has more than 40 years of experience in the field of water resources, municipal and environmental engineering, including various stormwater management strategies, watershed studies, servicing studies, development review, flooding and erosion control and special environmental management studies. He has served as project director for AECOM's stormwater funding studies in Canada and has managed a number of Master Servicing Studies, Development Charges studies, water and sewage rate studies throughout Ontario.



Mike is a licensed professional engineer in Ontario, Florida, and Ohio with 26 years of experience in stormwater management modeling and municipal stormwater funding, particularly rate financing to support sustainable service levels and programs. He completed his Master's degree in Water Resources Engineering at the University of Guelph. Prior to joining Computational Hydraulics International (CHI) in July 2015, Mike had previously worked for three large consulting firms in Canada and the U.S.

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## Panelists Biographies



Victoria Kramkowski is the Stormwater Charge Program Coordinator for the City of Mississauga where she manages the City's stormwater charge and its associated credit, subsidy and home visit programs. Victoria has previously worked for the Environmental Commissioner of Ontario and has taught, published and consulted on topics including scenario planning, environmental assessment, urban planning and natural resources management. Victoria has a Master of Environmental Studies and Urban Planning, and a Ph.D. in Environmental Planning from York University.



Arun is the Infrastructure Planning Engineering with the City of Guelph. He has over 8 years of experience within engineering consulting and the municipal sector. In his current role, he is responsible for the on-going planning of the City's Wastewater Collection, Water Distribution and Stormwater Management Systems.



Matthew completed his undergraduate work in environmental science at Trent university followed by a master's degree in Water Resources Engineering at the university of Guelph. After 8 years in consulting engineering Matthew transitioned to the public sector and currently works at the City of Kitchener in the Stormwater utility as a design and construction project manager. Matthew's career has focused on analysis and design to mitigate the environmental degradation associated with urban growth.



Todd was involved with the planning and implementation of Waterloo's stormwater utility and credit program. Todd has been with Water services for 5 years, and oversees several programs and projects such as the Mobile Technology program, and the Advanced Metering project. Previous to his role in Water services, Todd was the Manager of GIS at the City of Waterloo. Todd holds a BA in Geography from McMaster University and a GIS Applications Specialist diploma from Sir Sanford Fleming College.



Robert Muir is the Manager of Stormwater at the City of Markham where he manages the long term Flood Control Program, including planning studies, design and construction of remediation works, and stormwater funding. He has 26 years of experience in the planning, analysis, design and approval of municipal drainage and flood hazard management systems including 20 years in the private sector. His experience involves management of large, complex studies involving full life-cycle costing of alternatives.

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## **Abstract**

Municipalities across the US have been implementing and administering Stormwater Utilities for a number of years. They are now starting to gain favor in Canada and a number of municipalities have implemented similar Rates or are in the process of developing these. In most cases the driver behind this is the same: the need to develop a sustainable funding program to meet the ever increasing demands in operating and maintaining a Stormwater Drainage and Management system that will meet the ever increasing legislative demands and provide an approach that provides the appropriate protection of the community and the environment. This session will provide an overview of what Stormwater Utilities (or Rate Structures) are all about, the process that is typically carried out to develop and implement them, and the perils, pitfalls and challenges that are often faced. It includes a panel of municipal representatives that have gone through this process who will answer questions and provide insight as to how they dealt with the challenges that they faced.

## **Learning Objectives**

1. Foster greater understanding of what a stormwater rate is;
2. Share experiences on implementation of a Stormwater Rate; and
3. Understand some of the challenges and how to overcome them.