

## Day One - Track One

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

10:00 a.m. – 10:30 a.m.

## Low Impact Development (LID) Pilot Projects within the Lake Simcoe Watershed: Successes and Lessons Learned from Municipal-Conservation Authority Implementation Partnerships

**Presenters:** Ben Longstaff, Lake Simcoe Region Conservation Authority; Rachel Prudhomme, Town of Newmarket; and Glen McArthur, Town of Aurora

### Biographies



Ben is the General Manager of Integrated Watershed Management at the Lake Simcoe Region Conservation. Ben's area of responsibility include environmental monitoring, subwatershed Planning, Source Water Protection and urban watershed restoration. Ben obtained a PhD in aquatic biology from the University of Queensland, Australia in 2003. Before moving to Canada in 2009 Ben worked for the University of Maryland, USA and the Environmental Protection Agency in Australia.



Rachel Prudhomme is Director of Engineering for the Town of Newmarket. Prior to this, she spent 24 years as President of a firm specializing in innovative research, completing projects in Ontario, Quebec, South America and Europe. She spent time in academia as Lecturer and then as Dean. She has served on many Provincial Advisory Councils, the Premier's Research Excellence Awards Board, the Northern Centre for Advanced Technology, ORTECH International, Science North and numerous other boards.



Glen McArthur, P.Eng., PMP, is the project manager of the Aurora Community Centre Parking Lot Improvements Project. The \$1.9 Million project, included the installation of more than \$400,000 of Low Impact Development (LID) stormwater management (SWM) controls. Glen is a municipal engineer at the Town of Aurora with more than 13 years of engineering experience. Glen was also the project manager for the development of Aurora's SWM master plan which promotes the use of LIDs.

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## **Abstract**

Low Impact Development (LID) pilot projects are an essential element of the Lake Simcoe Region Conservation Authorities (LSRCA) strategy to mainstream LID in the watershed. Over the past two years LSRCA has collaborated with local municipalities to deliver over 10 pilot projects of varying scales and situation. Using LID techniques such as permeable pavement, bioswales, infiltration trenches and raingardens the pilot projects have reduced the impact of stormwater runoff from municipal facilities (sport complexes, fire hall, and town office), town parking lots and local roads. Understandably almost every stage of the pilot projects has been an invaluable learning experience, be it from the aspect of identifying suitable opportunities, developing funding models through construction and establishment of inspection and maintenance programs. This presentation will provide the perspectives and lessons learned from two municipalities (Aurora and Newmarket) as well as the Conservation Authority in completing the demonstration projects. Perspectives and lessons learned will be discussed in context of how they will influence future project implementation, the broader initiative of mainstreaming LID across the watershed and how other organizations may best learn from our experience.

## **Learning Objectives**

1. Teach audience benefits of undertaking LID pilot projects within context of a broader initiative of mainstreaming LID. Benefits include organization experience, educational, promotion & environmental;
2. Provide audience understanding of many challenges (lessons learned) associated with implementing LID projects and how challenges were overcome; and
3. Teach audience how lessons learned influence future manner in which LID retrofits will be undertaken within the Lake Simcoe watershed and what this may mean for their own jurisdiction.