

## Day One - Track One

Wednesday, March 21<sup>st</sup>, 2018

9:30 a.m. – 10:00 a.m.

## Implementing LID Guidelines: Lessons Learned

**Presenters:** Jennifer Young, Stantec and Dr. William Hunt, North Carolina State University

### Biography



Jennifer Young is a water resources engineer with over 12 years of experience specializing in Low Impact Development (LID), Green Infrastructure (GI), and integrated stormwater management planning. She mainly works on site and community development projects, implementing innovative stormwater management strategies. Jennifer has applied her expertise in drafting bylaws, standards, specifications, and typical drawings for stormwater GI; as well as the development of city-wide LID and GI programs and stormwater utilities across Canada.



Dr. William Hunt is a leading researcher in the field of stormwater management. Since 2000, Dr. Hunt has been responsible for the design, installation, and/or monitoring of more than 150 stormwater projects including bioretention, stormwater wetlands, innovative wet ponds, green roofs, permeable pavement, water harvesting/cistern systems, bioswales, regenerative stormwater conveyance, and level spreader/ filter strips. These projects are located throughout the eastern United States, including Northeast Ohio. He teaches 20-25 short courses and workshops each year on stormwater BMP design and function throughout the US and overseas.

## Abstract

Dr. Hunt will share his experiences with creating, implementing, and maintaining/ troubleshooting a large state-wide LID program. Dr. Hunt created stormwater management guidelines that focused on maintaining the existing site hydrology using Green Infrastructure (GI) to treat and infiltrate stormwater on-site to improve water quality and to reduce the volume of runoff. Once the new guidelines were created, the difficult process of implementing them across the state was started. As new GI facilities were built, Dr. Hunt monitored performance to determine how well these facilities were meeting the new criteria and observed the need and suggest means for practice upkeep. This allowed for changes to the guidelines and design guidance to improve long-term performance. Dr. Hunt, working with the state, created training courses for GI design, construction inspection, and maintenance to ensure that new GI facilities will meet the guidelines.

## Learning Objectives

1. High level overview of North Carolina's LID efforts in response to local drivers;
2. Implementation issues and how they were overcome; and
3. The need to provide design guidance, facility monitoring, and updating based on monitoring results.