

Center for Watershed Protection's Stormwater Webcast Series in 2014

Douglas County Environmental Services will once again host the Center For Watershed Protection's Stormwater Webcast Series in 2014.

There are 8 webcasts scheduled for 2014. Dates are February 12, March 12, April 9, May 21, June 11, September 10, October 8, and November 12, 2014. Unless indicated otherwise all webcasts will take place at the Douglas/Sarpy County Extension, 8015 West Center Road. Webcasts begin at noon and are 2 hours in length. A box lunch is provided with your webcast registration. Registration for each webcast is available via the Douglas County Environmental Services website (www.dcplanning.org) approximately 3 weeks prior to each webcast. If you would like to be included in a "webcast reminder" email please provide your email address to Karin Caldwell at karin.caldwell@douglascounty-ne.gov.

Webcasts are \$20 per person and include a boxed lunch (vegetarian option is available). Pre-registration by credit card is required; we are not able to accept walk up registrations.



Reimagining the Parking Lot & Roadway as a Stormwater Practice



Speakers: /Tom Price, PE, Director of Water Resources Engineering

Tim VanSeters, Manager Sustainable Technologies at Toronto and Region Conservation (TRCA) (Ontario, Canada)

Dates: February 12, 2014 • Time: 12 –2 PM CST

Historically, parking lots, roadways, and similar infrastructure have been single-purpose facilities – designed to move and store vehicles. However, especially in urban areas, these land covers consume a large percentage of the land area. The economics of urban land use is “driving” a different way of thinking about how these surfaces can serve multiple purposes, including stormwater management. This webcast will cover several ways of reimagining the parking lot and roadway as a place where stormwater can be reduced, stored, harvested, and treated. The webcast will feature case studies on green streets, permeable surfaces, rainwater storage and use, and incorporating vegetation into the mix.

SERIES 1: The Life of a Stormwater Practice



Speakers TBA

Dates: March 12, April 9, May 21 • Time 12-2pm CST

This series will explore all the elements that promote successful implementation of stormwater management best management practices (BMPs). The types of BMPs used in a community starts with the local development and stormwater codes. Individual BMPs first come into focus during the design process. Much of the ultimate success of a BMP depends on what occurs in the field during initial installation of the practice. Finally, long-term maintenance must be managed to maintain the original function, performance, and value of the BMP.

Series 1, Session 1: The Role of Local Codes:



Speakers: Julie Todd Owens, Environmental Compliance Manager with the Department of Watershed Management, City of Atlanta, GA (Atlanta, GA)

Clark Wilson, Senior Urban Designer, US EPA, Office of Sustainable Communities (Washington, D.C.)

Julie Schneider, Watershed Planner, Center for Watershed Protection, Inc. (Philadelphia, PA)

Dates: March 12, 2014 • Time 12-2pm CST

Local zoning, subdivision, drainage, and stormwater ordinances have a powerful influence on how stormwater design is conducted in a community. Often, the local codes act as barriers to implementation of certain innovative practices, which may include better site design and low-impact development. This webcast will feature strategies to analyse local codes and a process of changing codes in a community to achieve desired outcomes for stormwater design, and, ultimately, water quality in the community.

Series 1, Session 2: Design & Construction of BMPs



Speakers: Jason R. Vogel, Ph.D., P.E., Assistant Professor & Stormwater Specialist Riata 'Green' Entrepreneurship Faculty Fellow Department of Biosystems and Agricultural Engineering, Oklahoma State University (Stillwater, OK)

Scott McGill, Principal, Geomorphologist, Ecotone, Inc. (Forest Hill, MD)

Joe Battiatia, Senior Water Resources Engineer, Center for Watershed Protection, Inc. (Richmond, VA)

Bryan Seipp, Watershed Manager/Professional Forester, Center for Watershed Protection, Inc. (Ellicott City, MD)

Dates: April 9, 2014 • Time 12-2pm CST

The meat of successful BMP implementation is the design and construction process. This webcast will explore available resources for design, the hallmarks of a good stormwater design, and the process to make sure BMP installation is done correctly. The emphasis of this design and construction webcast will be on low-impact development and green infrastructure practices.

Series 1, Session 3: BMP Maintenance:



Speakers: Tom Schueler, Executive Director, Chesapeake Stormwater Network (Ellicott City, MD),

Ted Scott, PE (MD), CPESC, MSP, LEED AP, Executive VP, Stormwater Maintenance & Consulting (Hunt Valley, MD)

James Houle, Outreach Coordinator and Program Manager, University of New Hampshire (UNH) Stormwater Center Environmental Research Group, Department of Civil Engineering (Durham, NH)

Dave Hirschman, Program Director, Center for Watershed Protection, Inc. (Charlottesville, VA)

Dates: May 21, 2014 • Time 12-2pm CST

Even if a stormwater practice is properly designed and installed, the long-term maintenance can make or break the performance and community acceptance. Learn from the trenches ways to rapidly conduct maintenance inspections and needed maintenance tasks. Doing this will prevent future costly repairs. The webcast will also address how local governments can build a successful stormwater maintenance program.

How to Pick the Right Vegetation for Bioretention & Its Cousins



Speakers: Nate Cormier, ASLA, PLA, LEED AP, Principal Landscape Architect, SvR Design Company (Seattle, WA)

Wes Michaels, RLA LEED AP, Assistant Professor Principal for Spackman, Mossop and Michaels (New Orleans, LA)

Kevin Staso, North Creek Nurseries (Landenberg, PA)

Dave Hirschman, Program Director, Center for Watershed Protection, Inc. (Charlottesville, VA)

Bryan Seipp, Watershed Manager/Professional Forester, Center for Watershed Protection, Inc. (Ellicott City, MD)

Dates: June 11, 2014 • Time 12-2pm CST

Bioretention and its various cousins (rain gardens, bioswales, street bioretention, stormwater planters) are becoming popular and widespread practices around the country and the world. Putting the “bio” into bioretention designs is of course important, but sometimes not the major focus of the design process. However, in the long-run, it is vegetation that everyone sees and that constitutes perhaps the major maintenance task. The webcast will provide guidance on how to design with long-term maintenance in mind, and how choices of vegetation can influence aesthetics, performance, community understanding and acceptance, the provision of multiple benefits, and (importantly), maintenance budgets. We will also address the hot issue of whether to include trees in bioretention planting plans.

Stream Restoration as a Pollutant Reduction Strategy



Speakers: Bill Stack, P.E., Deputy Director of Programs, Center for Watershed Protection, Inc. (Ellicott City, MD)

Lisa Fraley-McNeal, Research Specialist, Center for Watershed Protection, Inc. (Ellicott City, MD)

Dates: September 10, 2014 • Time 12-2pm EST

Stream restoration has been used for many years and with various objectives and outcomes. Increasingly, it has become important to quantify the various benefits of practices, such as stream restoration. However, the science behind this quantification of benefits can be tricky, especially for pollutant reduction performance. Several updated studies and performance evaluation techniques make this more accessible. This webcast will explore several protocols to quantify and verify the benefits of stream restoration for pollutants such as sediment and nutrients over time.

SERIES 2: Implementing TMDLs



Speakers TBD

Dates: October 8, November 12, 2014 • Time: 12-2pm CST

Regional and local TMDLs are increasingly driving the selection and implementation of BMPs. Across the country, there is a tremendous need for communities to understand which BMPs can be used, how much pollutant removal credit they receive and at what cost. Many lessons have been learned from places where implementation has been progressing. This two-part series will focus on a couple of key elements of TMDL planning and implementation.

Series 2, Session 1: Local TMDLs & Regional/River Basin TMDLs: A Happy Engagement or a Shotgun Wedding?



Speakers: Karen Cappiella, Program Director, Research, Center for Watershed Protection, Inc. (Ellicott City, MD)

Jeffrey Seltzer, P.E., Associate Director, Stormwater Management Division, District Department of Environment, Government of the District of Columbia (Washington, DC)

More speakers to come!

Dates: October 8, 2014 • Time : 12-2pm CST

Increasingly, TMDLs are nested, with TMDLs for local waterways addressing local impairments (e.g., for bacteria, biological standards, dissolved oxygen, local pollutants) nested within larger watershed or river basin TMDLs, that are likely to address nutrients and sediment. Examples include the Chesapeake Bay, Great Lakes, Mississippi Basin, and several large river basins in the Northeast. The question is whether these TMDLs “talk to each other,” and how communities can best pick the most effective suite of BMPs to address TMDLs at all levels. This webcast will explore the issue of nested TMDLs and how analytical tools are emerging to integrate and coordinate management practices implemented at the local and regional levels.

Series 2, Session 2: Retrofitting Existing Stormwater Ponds & Basins



Speakers: Greg Hoffmann, P.E., Program Director, Practices, Center for Watershed Protection, Inc. (Ellicott City, MD)

Joe Battiatia, P.E., Senior Water Resources Engineer, Center for Watershed Protection, Inc. (Richmond, VA)

More speakers to come!

Dates: November 12, 2014 • Time : 12-2pm CST

Many communities seek solutions to improve water quality, green the community, and comply with permit conditions and numerical standards in TMDLs. One of the most efficient means to achieve multiple benefits is to retrofit a community’s existing stormwater infrastructure, consisting of older detention basins and ponds, among other practices. This webcast will highlight a systematic and effective way to inventory existing practices, develop concept plans, prioritize retrofits based on pollutant removal, cost, and other factors, and construct the retrofits.