

Stormwater System Design and Performance

A workshop featuring the research of the University Of New Hampshire Stormwater Center
Presented by the Northeast Ohio Stormwater Training Council

August 5, 2009

Time	
8:00–8:45	Registration & Opening Exercise: What Do You See? Barriers to Effective Stormwater Management in Ohio.
9:00–9:30	A: Introduction <ul style="list-style-type: none"> – Daila Shimek, Cleveland State University Great Lakes Environmental Finance Center – Heather Elmer, Ohio Department of Natural Resources Division of Wildlife – James Houle, University of New Hampshire Stormwater Center <ol style="list-style-type: none"> 1. Presenter Introductions & Housekeeping 2. About the University of New Hampshire Stormwater Center (UNHSC) 3. NOAA - CICEET and CSC Partnership 4. Workshop Goals
9:30–10:45	B: Changing Times: Regulatory, environmental, and economic influences on stormwater management’s changing standard of practice. <ul style="list-style-type: none"> – James Houle, University of New Hampshire Stormwater Center – Dan Bogoevski, Ohio Environmental Protection Agency (Section 1d – Phase II in Ohio) <ol style="list-style-type: none"> 1. Phase II: It’s Changing How Site Designers Work 2. Upping the Ante with Antidegradation Policies 3. How Not Changing Will Cost Us 4. What Site Designers Can Do
10:45–11:00	Break
11:00–12:00	C. Standing the test of time: Generating stormwater designs that will stand up to changing regulations, save money, and protect the environment. <ul style="list-style-type: none"> – James Houle, University of New Hampshire Stormwater Center <ol style="list-style-type: none"> 1. Working With Predevelopment Conditions 2. Selecting the Right BMP 3. Hydrological Processes 4. Physical Processes 5. Biological Processes
12:00–1:00	Lunch
1:00–2:00	C. Standing the Test of Time Continued: <ol style="list-style-type: none"> 6. Combination is the Solution 7. Cost & Maintenance—the Bottom Line
2:00–2:30	D: Putting It Into Practice: Case Studies That Compare & Contrast Effectiveness of Conventional and LID Style Approaches to Stormwater Management <ul style="list-style-type: none"> – Amy Holtshouse Brennan and Rachel Webb, Chagrin River Watershed Partners <ol style="list-style-type: none"> 1. Ohio Case Study: Water Quality Treatment and Runoff Reduction Performance of Roadside Bioretention
2:30–2:45	Break
2:45–3:15	D. Putting It Into Practice Continued: <ul style="list-style-type: none"> – James Houle, University of New Hampshire Stormwater Center <ol style="list-style-type: none"> 2. UNHSC Presented Case Studies <ol style="list-style-type: none"> a. Using pave and pond in a new commercial development b. Using LID stormwater in a new commercial development
3:15– 4:15	E. Bringing It All Together: Facilitated discussion exploring how UNHSC research and local resources can help participants overcome technical barriers and generate effective stormwater designs
4:15–4:30	F. Wrapping Up the Day: Workshop Review & Evaluation

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Workshop Location:

Cleveland State University
Maxine Goodman Levin College of Urban Affairs
Dively Room

Webcast Locations:

ODNR Assembly Center, Columbus
Ohio EPA Northwest District Office, Bowling Green
City of Sandusky Fire Headquarters, Sandusky
GPD Group, Akron
Woolpert, Inc., Cincinnati

This training was made possible through a partnership of the UNHSC, the NOAA Coastal Services Center, the Cooperative Institute for Coastal and Estuarine Environmental Technology, and the National Estuarine Research Reserve System Coastal Training Program. Stormwater professionals from northern Ohio provided input on course design through focus groups and by serving on the planning committee for this event.

Funding and planning assistance provided by:

Ohio Coastal Training Program:

- ODNR Division of Wildlife
- ODNR Office of Coastal Management
- Old Woman Creek National Estuarine Research Reserve
- Ohio Sea Grant College Program
- Ohio Lake Erie Commission

Ohio Environmental Protection Agency

Great Lakes Environmental Finance Center at Cleveland State University

Ohio Department of Natural Resources Division of Soil and Water Resources

Northeast Ohio Urban Team of Soil and Water Conservation Districts

Northeast Ohio Regional Sewer District

Chagrin River Watershed Partners through a USEPA National Community Decentralized Demonstration Project

U.S. Environmental Protection Agency

Summit Soil and Water Conservation District

Stark Soil and Water Conservation District

Cuyahoga Soil and Water Conservation District

Erie Soil & Water Conservation District

GPD Group

Lake County Stormwater Management Department

Cuyahoga County Board of Health

Firelands Coastal Tributaries

Woolpert, Inc.

City of Aurora

City of Sandusky