

RAISING THE BAR GREEN STORMWATER INFRASTRUCTURE PLANNING AND DESIGN

April 22 & 23, 2014
DoubleTree Hotel by Hilton
South Burlington, VT

Register online at
www.greenworksvermont.org



Please join us for a two-day intensive workshop focused on the use of green stormwater infrastructure (GSI) systems and practices to achieve stormwater management goals.

Stormwater runoff, caused by precipitation running off impervious surfaces and developed lands, is a leading cause of surface water pollution. Managing the quality and quantity of this runoff is of utmost importance for the health of our communities and the protection of natural resources.

The workshop will include an overview of why and how the national stormwater world is shifting to place more focus on volume reduction, small-scale practices close to the source of runoff, and green practices that utilize soils, vegetation, and natural processes to reduce the volume of and remove pollutants from stormwater. Presentations on green stormwater design practices and principles will be included, as well as a hands-on site design charette using real-world site plans from Vermont. This charette will give participants experience with applying green practices to sites that utilized more traditional approaches, but where there were missed opportunities to apply green practices. The workshop will also include a session on implementation strategies and challenges for Vermont.

Sponsored by:



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Agenda

Day 1 - Tuesday, April 22, 2014

8:00 Registration and Continental Breakfast

8:30 Welcome and Introduction

8:45 Getting Familiar with GSI

Explore the current state of GSI at the national and local level. What's working and what's not? What special considerations pose challenges in Vermont and the Northeast?

10:30 Break and Sponsor/Vendor Exhibits

10:45 Accounting for GSI

GSI and the runoff reduction approach. Optimizing design to meet stormwater management goals.

11:30 Meet the Practices I

From the rooftop to the stream: rooftop, parking and travelway, landscape and conveyance, at the low point and near the stream corridor.

12:00 Lunch

1:00 Meet the Practices II

Putting the practices to work. Examining case studies from throughout the northeast and beyond.

4:00 Checking in on Research I

Nutrient removal efficiencies.

Day 2 - Wednesday, April 23, 2014

8:00 Registration and Continental Breakfast

8:30 Checking in on Research II

Bioretention monitoring at UVM.

8:50 GSI Design Charette

Conduct field investigations in small groups. Develop preliminary designs that use GSI to meet goals.

12:00 Lunch

1:00 GSI Design Charette

Continue with plan development. Report out highlights.

2:10 Permitting in Vermont

Implications of federal, state, and local regulations on GSI implementation.

2:35 Break and Sponsor/Vendor Exhibits

2:50 Operation and Maintenance

Making GSI work. An in-depth discussion about maintenance, tools of the trade, and checklists for inspection.

3:50 The Economics of GSI

Current research and helpful tools to quantify the benefits and costs of GSI.

4:15 Closing Remarks

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Speaker Information



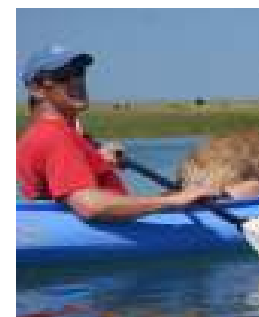
*David J. Hirschman, Program Director, Center for Watershed Protection **

David J. Hirschman will be the lead presenter for the workshop. Mr. Hirschman serves as a Program Director and Virginia Office Director for the Center for Watershed Protection, and has over 30 years of experience in stormwater and water resources management in the public, private, academic, and non-profit sectors. In his current role with CWP, he helps coordinate the Center's stormwater, better site design, local restoration, and training projects, focusing on technical and program tools for use by local, state, and territorial governments and agencies. He has also led numerous workshops on stormwater design and program implementation. Mr. Hirschman has a B.A. in Biology from Duke University and a Master of Urban & Regional Planning from Virginia Tech.



Andres Torizzo, Principal Hydrologist, Watershed Consulting Associates, LLC

Andres Torizzo is Principal of Watershed Consulting Associates, LLC, a consulting firm specializing in stormwater management, based in Burlington, Vermont. Mr. Torizzo's focus is on green infrastructure modeling and design, watershed assessment, and stormwater retrofit. He has been actively working on water quality improvement projects with Vermont non-profit organizations, municipalities, State entities, and private landowners since 2002. Mr. Torizzo is a Board member of Friends of the Mad River and the local chapter contact for the Center for Watershed Protection Association. Mr. Torizzo earned his Undergraduate Degree in Geological Sciences from Tufts University in 1998, and his Graduate Degree in Hydrology from the University of Colorado at Boulder in 2002.



Dr. Robert Roseen, Ph. D., D. WRE, PE, Associate, Geosyntec Consultants

Dr. Robert Roseen is an Associate at Geosyntec Consultants in Portsmouth, NH. He has substantial experience with the implementation of green stormwater infrastructure including design, installation, construction oversight, and inspection. Dr. Roseen was the Director of the UNH Stormwater Center from 2004-2012. Dr. Roseen has conducted numerous studies examining the flooding impacts of both land use and climate change and the role of green infrastructure in building community resiliency. Dr. Roseen has participated in many significant and award winning green stormwater infrastructure projects.

Continuing education credits for both planners and landscape architects are anticipated.



* The Center for Watershed Protection, Inc. is a 501(c)(3) non-profit organization dedicated to fostering responsible land and water management through applied research, direct assistance to communities, award-winning training, and access to a network of experienced professionals. The Center was founded in 1992 and is headquartered in Ellicott City, Maryland, with a Virginia office located in Charlottesville.

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WORKSHOP REGISTRATION FORM

Registrations will be accepted until April 14, 2014.
Space is limited to 125. Sign up today!

Register online at
www.greenworksvermont.org

Contact Information

Name: _____ Title: _____

Company/Organization: _____

Address: _____ City/State/Zip: _____

Phone: _____ Email: _____

Registration Information

Offerings	Non-profit/Government	Individual	Amount Due
One Day (4/22)	\$85	\$100	\$
One Day (4/23)	\$85	\$100	\$
Two Day (4/22 - 4/23)	\$150	\$180	\$
Grand Total			\$

Registration includes continental breakfast and lunch.

Payment Information

(circle one)

Check payable to VNLA

Visa

Mastercard

Credit Card #: _____/_____/_____/_____

Exp. Date: _____/_____

Print name as it appears on card: _____

Card holder signature: _____

Mail completed registration form to:

Green Works / VNLA

P.O. Box 92, North Ferrisburgh, Vermont 05473

802-425-5117 / kristina@greenworksvermont.org

www.greenworksvermont.org

Cancellation Policy

To receive a refund, your request must be received prior to April 11, 2014. No refunds will be made after that date unless the conference is cancelled.

Accommodations

In addition to lodging at the DoubleTree, there are two other hotels in close proximity. They are both located on Williston Road (Rte 2). Holiday Inn - 802-863-6363; Sheraton - 802-865-6600.