

Registration now Open!

Learn to review LID design for Maine's Climate

December 2, 2009

Verrillo's Restaurant and Portland Convention Center, Portland, Maine

Instructors from Geosyntec, UNH Stormwater Center, Maine DOT, Sustainable Design, Maine NEMO

Cost: \$40 for municipalities/ state employees, \$100 for private consultants,

A limited number of scholarships are available for municipal staff thanks to the generosity of the *Casco Bay Estuary Partnership!* Contact LaMarr Clannon at 592-3680 to apply.

Vendor Exhibits: \$200 for space includes 1 registration and 6 ft table, free Wifi and electricity is available on request.

Rooms at the adjacent Howard Johnson Hotel are available for \$59/ night if reserved by Nov 16. Call 774-5861 to reserve.

CEUs are available:

7.5 credits AICP (American Planning Association) Certification Maintenance credits

7.5 PDH (professional development hours) for engineers

6 credits for Code Enforcement Officers

6 credits for Drinking Water Operators

To register please fill out the attached registration form.

Bring Your Calculator, Learn to Review LID Design for Maine's Climate

7:30-8:00 Registration, snacks, Vendors

8:00-9:30

Welcome, introductions, LID as a design philosophy, stormwater issues associated with climate change, changing chapter 500 regulations, material binder walkthrough

9:40-9:40

10 min Break

TRACK A

TRACK B

9:40-11:30

LID Design Charette - (Ann Archino-Howe, Sustainable Design) Start with the basic layout and design parameters for a new school on a redevelopment site (soils, existing SW infrastructure, and issues for stormwater attenuation and treatment) and work as a group on a stormwater concept design. Second session will compare final ideas with the actual design that is currently under construction.

Porous pavement design review (Rob Roseen UNH- what size storm should it be designed for, changing design objectives and effects on sizing requirements, calculating cost and comparing with conventional design costs, O&M associated with this practice in cold climates, when to call an expert)

11:30-12:30

Lunch and Vendors

12:30-2:20

LID Design Case Study - (Ann Archino-Howe, Sustainable Design) Compare design charette ideas with the actual design that is currently under construction, focusing on the LID aspects, and discuss the design changes that resulted from interaction with City staff, the building committee, and the Planning Board, during the review process including issues raised by the fire department and public services as well as engineering issues. Review and discuss the City's Public Services Department maintenance responsibilities of the stormwater infrastructure

Gravel wetland for nutrient removal design review (James Houle, UNH-what size storm should it be designed for, changing design objectives and effects on sizing requirements, calculating cost and comparing with conventional design costs, O&M associated with this practice in cold climates, when to call an expert.)

15 min Break

2:35-3:00

Case study of porous pavement installation to a high traffic urban highway within the Lond Creek Urban Impaired Watershed (Peter Newkirk. Maine DOT)

3-5pm

Construction Do's and Don'ts. (Steve Roy, Geosyntec-) From contractor selection and prequalification - to LID construction phase, sequencing and staging issues – contractor testing and submittals, field design changes, reviews during and post construction and warranties, assurances, etc. if the BMPs do not perform as intended.



Low Impact Development (LID) Design Workshop

Hours: 8:00 A.M. to 4:30 P.M. (check in at 7:30)
Session #NPS1056 Portland, Verrillo's

Fee: **\$40 for municipal officials, \$100, for private Consultants and \$200 for Vendor exhibits**

This workshop will provide instruction on the use of Low Impact Development techniques in the design and review of development projects. Participants will be instructed on the difference between LID and BMPs, and LID as a design philosophy. They will also be provided with the ability to suggest LID techniques for a green development and retrofit site. In addition, participants will work through a complete design for porous pavement and bioinfiltration and will be taught to calculate cost comparisons for LID and conventional treatment. Finally participants will gain experience with changing design objectives and effects on sizing LID, and will work through operations and maintenance for various LID techniques.

Registration Form

Name: _____ Company: _____

Street Address: _____

City/Town: _____ State: _____ Zip: _____

Tel: _____ Fax: _____ Email: _____

Municipal Official \$40 _____ **Private Consultant \$100** _____ **Vendor \$200** _____

There will be 2 concurrent sessions please check the one you wish to attend:

- ___A: *LID Design Exercise and Case Study* **OR**
___B: *Design Review of Porous Pavement and Gravel Wetlands*

Indicate Method of Payment Amount Enclosed \$ _____

Check # _____ Purchase Order # _____ or Credit Card _____

Credit Card Number _____

___ Visa ___ MC ___ Discover (3 digit code located on back of card (Visa only) _____

Expiration _____ Name on Card _____

Signature _____ Date _____

Mail form and payment to:
JETCC, P.O. Box 487, Scarborough, Maine 04070-0487
Or fax with a purchase order to: 207/771-9028 or call 253-8020

NOTE: To avoid additional \$10 late fee, please register by November 23, 2009