

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

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

8:00-9:30

Welcome, introductions, Maine NEMO 20

LID as a design philosophy, Dave Rocque 25

Stormwater issues associated with climate change, James Houle 25

Changing chapter 500 regulations, Maine NEMO 10

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 Long Creek Urban Impaired Watershed (Peter Newkirk, Maine DOT)

3-5pm **Construction Do's and Don'ts.** (Andrea Braga, 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.