

**Top Secret**

# Plenary Session Abstracts

## Stormwater in the City

Wednesday, 10:15 AM

Atlantic Room

Moderator: Hye Yeong Kwon, Center for Watershed Protection

### The Latest & Greatest Urban Stormwater Practices

*Presenter: Rich Claytor, Horsley Witten Group*

New England has been settled for a long time, and is also pretty set in its ways. So, when it comes to stormwater, there is a lot of retrofitting and redevelopment to be done. You can't travel far in the region without (literally) running into Rich Claytor, P.E. and a Principal of the Horsley Witten Group, a prominent environmental science and engineering firm in New England. The Horsley Witten Group works on a wide range of projects involving stormwater management, smart growth, low impact development, and wetlands protection. As the main man at Horsley Witten Group for many of these projects, Rich has quite a lot of examples to relate, and stories to tell, of the good, bad, ugly and innovative aspects of working on stormwater management in urban communities. Although Rich is more often compared with Maxwell Smart than James Bond, we thought it was close enough.

### The Fate of the First Impervious Cover TMDL in the Nation

*Presenters: Chet Arnold, University of Connecticut CLEAR & Kelly Collins, Center for Watershed Protection*

In 2007, the Connecticut Department of Environmental Protection promulgated the first Total Maximum Daily Load (TMDL) in the country based on impervious cover—smack dab on the University of Connecticut campus. The TMDL was developed as a way to deal with “urban stream syndrome” —streams compromised by a concatenation of contemptible urbanization-related impacts. What does an “Impervious Cover TMDL” mean? Will the mixing of a technically based pollutant accounting system with a general landscape indicator be like oil and water, or lobster and melted butter? This talk will relate the status, findings, and results to date of the ongoing Eagleville Brook project. Ponderings on pavement, ruminations on retrofits, and musings on mechanistic modeling versus outreach-oriented organizational frameworks will be offered. Progress has already been made, and don't tell anyone...but we think it's working.

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NEMO University U007 - September 29 - October 1, 2010

\*To ensure the secrecy of our conference and agenda, details including room locations are subject to change at anytime prior to mission date. Please refer to the final mission report (a.k.a. the Agenda Packet) for the most recent updates.

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**Long Creek Overview: A Creative Local Effort to Fund & Carry Out Restoration of an Urban Watershed**

*Presenter: Curtis Bohlen, Casco Bay Estuary Partnership*

The “Clean Water Act” (CWA) has been remarkably effective reducing the impact of discharges from industrial sources and wastewater treatment facilities. It has been less effective dealing with the insults to surface waters from urbanization. A three-year effort in the Long Creek watershed, near Portland, Maine has culminated in creation of the Long Creek Watershed Management District (LCWMD), a pub-

lic-private partnership to support stormwater management and urban stream restoration. EPA recently announced that it would use “Residual Designation Authority” to require Long Creek landowners with over one acre of impervious cover to obtain CWA permits. Complying with this new obligation could have cost businesses thousands of dollars per acre of asphalt. The LCWMD solution offers a less expensive alternative while it facilitates urban watershed restoration. The creative approach used in Long Creek offers a potential tool for addressing stormwater in urban and suburban watersheds nationwide.

# Concurrent Training Session Abstracts

## Reiterating & Retooling NEMO

Wednesday, 1:30 PM

Regency Room

Moderator: Robert McCormick, Planning with POWER (IN NEMO)

**A Case of Changing Identity: New Hampshire’s Natural Resource Outreach Coalition (NROC)**

*Presenters: Julia Peterson, NH Sea Grant & Steve Miller, Great Bay National Estuarine Research Reserve*

After about 10 years in existence, the NH NEMO program (aka NROC) has had to adjust to external pressures. The Coalition is made up of ten organizations and agencies that provide education, technical assistance and facilitation to community boards and municipal officials looking to improve land use decisions and their effects on water resources in New Hampshire’s coastal watershed. As the number of applications for assistance diminished, volunteer fatigue and financial strain in communities increased and funding sources shifted, the Coalition found itself

having to make changes in its approach to communities.

Fortunately, one of the Coalition partners, Piscataqua Region Estuaries Partnership, recently conducted a broad inventory and assessment of the natural resource based regulations and policies within the region. The Assessment provides information about what natural resource protection policies and regulations a community has and how that compares to other communities within the watershed. The assessment, the Piscataqua Region Environmental Planning Assessment, is providing a calling card and launching pad for NROC members to work with communities. Come learn how one program breathed new life into its community work and consider how your community work might benefit from others’ experiences.

## **Dr. NEMO: When The Prescription is Education, What's a Municipal Official To Do?**

*Presenters: Loraine Joubert & Lisa DeProspo Philo, RI NEMO*

In 2005, RI NEMO began working with municipalities across the state on the topic of stormwater pollution. Our primary goal has been to develop educational materials and delivery methods that Rhode Island municipalities and other MS4s could use to meet their Phase II requirements. Most notably, we have been helping municipal officials to develop education strategies based on local water resource issues so that they can carry out the education themselves. Over the course of the last five years, we have met with mixed success. We would like to share not only the materials that we have created but also the range of our experience, from examples of municipalities that have embraced their additional roles as public educators to those who have not. We hope to highlight the special challenges and opportunities associated with the task of asking municipal officials to become educators, and engage participants in discussion of their own experiences.

## **Helping Communities Reach Watershed Goals – Regional Water Quality Assistance Network**

*Presenter: Eve Brantley, AL NEMO*

A desire to implement educational and on-the-ground projects to make a difference in watershed health is a common theme in communities where water quality has been identified as a priority. Often, the stumbling block to putting practices into action is a lack of expertise. To address this issue, a multi-state, interdisciplinary team was awarded an EPA Targeted Watershed Grant, Southeast Regional Water Quality Assistance Network. This project provided a variety of technical assistance to selected communities around the southeast. Communities completed an application that detailed their needs in four main categories: 1) Financial Planning and Assistance, 2) Water Quality and Watershed Management, 3) Watershed Planning and Participation, and 4) Project Implementation. The communities were then matched to the partner(s) that could best provide expertise to achieve local goals of protecting or restoring local water quality.

This presentation will provide an overview of lessons learned from spotlight communities including Little River Canyon Watershed, Alabama, Soquee River Watershed, Georgia, Lenoir, North Carolina, and the City of Jasper, Alabama.



*The docks off Commercial Street, Portland. (Photo by Kara Bonsack)*

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# Water Runs Through It

Wednesday, 1:30 PM

Armory Room

Moderator: Michael Dietz, CT NEMO

## Quantum of Buffer

*Presenters: Emily Wilson & Juliana Barrett, University of Connecticut CLEAR & CT Sea Grant*

Land cover data from the Center for Land Use Education and Research was used to assess land cover and land cover change within riparian corridors of Connecticut. Two buffer areas, 100ft and 300ft, were each defined by the distance on either side of a stream or from a shoreline. Each buffer area was characterized for both 2006 land cover status and 1985-2006 land cover change.

The results of this analysis directed attention to several watersheds within the state in which development within the 300ft buffer had increased significantly between 1985 and 2006. The Niantic River Watershed in southeastern Connecticut is now the focus of a four town riparian buffer program. Workshops for municipal officials in each of the towns within the watershed focused on buffer functions and values, including their role as a climate change adaptation strategy, with a goal toward influencing local policies to include riparian buffer guidelines.

## Mission: For Your Streams Only

*Presenters: Jessica D'Ambrosio, Andy Ward & Jonathan Witter, OH NEMO*

The Take: While you might have thought the Ohio NEMO Program had become a devised facility in the last few years, our operatives have been in deep cover investigating local needs, new topical directions, and innovative tools and resources.... By keeping our cover until now, we have ensured plausible denial from all affiliates.

There has been much black propaganda dis-informing us that stream systems should not have a key role in land use protection strategies. Ohio NEMO operatives have recovered a valuable communications device to help municipal officials understand and assess stream and watershed systems, better prioritize sites for protection and/or enhancement, and choose appropriate enhancement strategies. This web-based, multi-media communications device is freely available and can be adapted to any state or region. Its full contents will be leaked to the public June 2010. We have provided you with a small part of the contents. Knowing too much too soon could be dangerous. Current dead drop location (subject to change without advanced notice to protect site contents).

This device is part of a larger effort to re-instate the NEMO for Streams Program (aka: STREMO): A highly adaptable program that puts the focus back on streams systems and the ecosystem services they provide as part of a comprehensive land use strategy.

The Target: 7...U7. Should you choose to accept this mission, you are our target of opportunity to adapt the program to multiple NEMO stations.

## You Sank My Nitrogen!: Adding Nitrogen Assessment & Control to Coastal NEMO Programs

*Presenters: Art Gold, University of Rhode Island, Q. Kellogg, University of Rhode Island, Melinda Shimizu, Arizona State University, Dept. of Geography, Elizabeth Wentz, Arizona State University, Dept. of Geography, Kelly Addy, University of Rhode Island & Chet Arnold, CLEAR*

If your NEMO territory is close to where the land meets the sea, and maybe even if it's not, your target

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audience has probably been inundated by a raft of state and federal officials, coastal ecologists and watershed hydrologists with a relentless diatribe on the evils of nitrogen (N). However you feel about their smug little N clique, we all know that impervious cover is not the whole story when it comes to water resource protection. So maybe somewhere far, far, away (or just 2 states south), there are NEMO people who can share straightforward GIS approaches to N assessment, restoration of buffers, wetlands and streams, as well as control methods for septic systems, storm water and

small farms that can be easily implemented by local communities. Nitrogen assessment and control no longer needs to be a guessing game—your coastal managers will knowingly exclaim “You sank my Nitrogen!” Come hear about a new modeling tool that estimates and locates watershed sources or sinks for that evil nitrogen—helping to target riparian, stream and reservoir protection efforts and subsequently maintain or improve critical coastal water resources.

## Partners in Crime

Wednesday, 3:15 PM

Regency Room

Moderator: Mel Coté, US EPA Region 1

### The World (& Data) is Not Enough

*Presenters: Danielle Bamford, Stephanie Beard, Adrienne Harrison & Nate Herold, NOAA Coastal Services Center*

More than just data, the Digital Coast is a network of diverse partners working together to address the priority coastal issues of coastal conservation, hazards, land use, marine, and water quality planning. The Digital Coast, designed by Q, was envisioned as an information delivery system that could efficiently serve not only data, but also the training, tools, and user case studies. The purpose of this session is to demonstrate all of Digital Coast's top secret features that are relevant to the NEMO programs (with super secret security clearance) and land use planners. The Coastal Inundation Toolkit is a specific example of how the data, tools, and other information within Digital Coast can help assess flood risks in your communities, all while defeating the evil Dr. No.

### An Undercover Agent's View of Community-based Watershed Management in Hawaii

*Presenters: Jolie Wanger (Hawaii Sea Grant), Carol Wilcox (Mālama Maunalua) & Alyssa Miller (Mālama Maunalua) NERRs*

Hawaii Sea Grant has embedded a NEMO operative (Extension Agent) within the ranks of a local community organization (Code Name: Mālama Maunalua). Mālama Maunalua has quickly established itself as a leading force in the fight against impervious cover (code-IC) and other crimes that have resulted in the near death of Maunalua Bay. Three major interrelated threats (land-based pollution, overharvesting, alien algae) are being addressed. Thus far extensive research, community removal of alien algae leading to a federal stimulus grant for large-scale removal, and important steps towards stormwater remediation in partnership with the Army Corps of Engineers have occurred. The Extension Agent and her associates have commenced an investigation of IC and other watershed crimes, adapting established protocols to the local situation and employing cutting-edge gadgets. They are working to initiate Low Impact Development (code-LID) pilot projects, workshops, and train a cadre of agents to provide “house-call” services for stormwater improvements.

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## **Go Ahead... Make My Day - CTP and NEMO Friends or Foe?**

*Presenters: Christine Feurt, Wells NERR Maine, Jennifer West, Narragansett Bay NERR, Rhode Island*

The Coastal Training Program (CTP) of the National Estuarine Research Reserve System is actively engaged in 27 coastal states working with communities to improve land use practices, manage stormwater and protect habitat. Sound familiar? It should since CTP partners with NEMO in many areas. How does CTP

compare to NEMO? CTP Coordinators from Maine and Rhode Island will share “the good, the bad and the ugly” aspects of work with municipal land use planning in the northeast that differs from and augments a traditional NEMO approach. Social science research to understand municipal official perceptions of water and pollution; development of conservation planning documents; use of audience polling devices, and application of innovative CommunityViz technology will be presented.

## **Tools from the Mind of NEMO**

**Wednesday, 3:15 PM**

**Armory Room**

**Moderator: April Turner, SC NEMO**

### **CRIs Like Us**

*Emily Wilson, CT NEMO; Greg Bonyng, RI NEMO; Jesse Schomberg, Northland NEMO; Dan Hitchcock & April Turner, SC NEMO; and Patrick Beggs & Christy Perrin, NC NEMO*

One of the cornerstones of CT NEMO's outreach to land use officials and planners has long been the Online Community Resource Inventory Tool. The tool takes much of the pain out of the critical first step in natural resource based planning - conducting a resource inventory. It provides a resource inventory for each of CT's 169 towns to anyone with a web browser and an internet connection. While simple, it is one of CT NEMO's most effective tools.

With funding from CICEET (the Cooperative Institute for Coastal and Estuarine Environmental Technology), we launched an effort in 2007 to help other states in the NEMO Network develop their own versions of an online CRI. This session will feature each of those adaptations and demonstrate how each created their own morph on tool. A great opportunity for you to learn about different approaches to building an interactive and effective resource inventory or other web mapping tool.

### **“Bond”ing with Your Watershed – The Northland NEMO Watershed Game**

*Presenters: John Bilotta, Jesse Schomberg, Cindy Hagley, & Julie Westerlund, MN, Northland NEMO - Additional author acknowledgment: Barb Liukkonen, Jenny Winkelman*

The Watershed Game is a highly interactive tool developed by Northland NEMO to build the level of understanding, knowledge, and skills of local elected and appointed leaders. Participants learn how a variety of land uses impact water and natural resources, increase their knowledge of BMPs, and learn how their choices can prevent adverse impacts. Participants apply plans, practices, and policies that help them achieve a water quality goal (aka TMDL) for a stream, lake, or river.

In the first part of this session, NEMO colleagues will discover how this tool has been used in NEMO programming and learn about the effectiveness of this tool through evaluation data that has measured knowledge and skills gained and participant's actions or behaviors changed. The second part of the session will take place on the evening boat trip and involve a full run-through of the game, including set up, rules, game management techniques, and wrap-up, to provide participants with a full comprehension of the activity and help them determine how this could be useful in their own NEMO programs.

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# Site Design/LID

Thursday, 10:30 AM

Regency Room

Moderator: TBD

## **Stealth Stormwater Solutions: Allowing LID to Infiltrate Reluctant Oregon Communities**

*Presenters: Robert Emanuel, Derek Godwin, Frank Burris, Megan Kleibacker, Oregon State University Extension Service & Oregon Sea Grant, & Teresa Huntsinger, Oregon Environmental Council*

Low Impact Development approaches have been embraced in some larger communities that face state-regulated water quality issues such as combined sewer overflows and significantly impaired water quality near urbanized areas. Encouraging stormwater managers in many smaller (and some larger) communities to employ low impact development approaches means using a whole suite of educational subterfuge.

Beginning in 2008, Oregon State University and Oregon Environmental Council teamed up to produce Stormwater Solutions workshops to help these ideas infiltrate more reluctant Oregon communities. We will present what we have found to be the keys for working with these communities to create on-the-ground demonstrations, unique trainings, and technical assistance tools. A few examples are: transforming local contacts into partners, being persistent and yet remaining flexible, and demonstrating small but measurable successes before attempting more ambitious change. This presentation will provide both ideas and strategies that NEMO Network members can secretly incorporate into their programs to encourage the adoption of LID-focused strategies in many types of communities.

## **Decoding LID & Recruiting Secret Agents for Change in Maine with Counterinsurgency for Coastal Communities**

*Presenters: LaMarr Clannon, ME NEMO Coordinator & Fred Dillon, South Portland Stormwater Program Coordinator*

Our creative partnership started with real barriers (lack of exposure/expertise) and perceived barriers (just 'cause it works in NH doesn't mean it'll work here) to incorporating LID in projects in northern New England. Several rounds of outreach, education and evaluation have led to tangible results and a less turbid path forward.

Tangible results include adoption of stormwater ordinance, LID used on individual projects, engineers vocal support of the NEMO program as an agent for change (in front of our major funder-oh yeah!), and a majority of workshop attendees claiming that they will use something they learned to incorporate LID in their communities.

One project to highlight is South Portland's efforts to develop a LID guide specifically designed for the unique characteristics of coastal communities. This will be a "user-friendly" online resource that will benefit small commercial and residential development and redevelopment projects constrained by coastal soils throughout southern Maine.

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**Live & Let Live: Finding Common Ground between  
Emergency Safety Needs & Effective Stormwater  
Management**

*Presenters: Monique Myers, CA WALUP & Timothy  
Lawrence, Washington State University Extension*

Street width and carrying capacity of permeable pavement and bioretention features are common concerns of fire safety and other emergency safety professionals. Since local decision makers need to give precedence to safety concerns and access over environmental benefits, implementation of low impact development (LID) features can be derailed if emergency safety personnel are not confident the features will adequately

support their needs. To fully understand the needs of both emergency safety personnel and requirements of city/county planners regarding LID implementation, we convened focus groups and personal interviews with stakeholders from both groups in Ventura County, the cities of San Ramon and Davis, California. A publication resulted from this work Davis CA Fire Chief described as "...the most equitable treatment of the topic I have seen to date." The methodology may be useful for implementation in other parts of the US and is already in use in California, Oregon, and Washington Cooperative Extension and Sea Grant programs to facilitate discussion with local emergency services organizations.

## **Tools, Too**

Thursday, 10:30 AM

Armory Room

Moderator: Greg Jennings, North Carolina State University

**Secret Intelligence River**

Details to come.

**Conservation Subdivision Design: A Planning Tool to  
Mitigate the Impacts of Development on Natural  
Resources**

*Presenters: Sean D. Rafferty & David A. Skellie, PA  
NEMO & PA Sea Grant*

One of the planning tools used to mitigate the impacts of development is conservation design. Conservation design allows communities to preserve networks of open space by promoting the construction of conservation subdivisions in place of conventional subdivisions. Benefits of preserving open space through conservation design include: protects streams and water quality, provides habitat for plants and animals, provides recreational opportunities, often reduces costs of municipal services, increases profit margin for developers, etc. This presentation will

detail two conservation design efforts in the Erie Region: the proposed 63-acre Crown Point Conservation Subdivision in Millcreek Township, including land development and cost comparisons between the originally planned conventional development and the conservation subdivision; and in Harborcreek Township, the development of standards (requiring amendments to all three of the Townships planning documents) that would facilitate new conservation residential subdivisions.

**Stealthy Approaches to Buffer Education - What  
Would Q Think?**

*Susan Donaldson & Steven Lewis, University of Nevada  
Cooperative Extension, Genie Azad, Carson Water  
Subconservancy District & Mary Kay Wagner, Nevada  
Division of Environmental Protection*

Riparian buffers in the Great Basin are substantially different in character from those in much of the



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United States. Many have been impaired by agriculture, overgrazing, development pressures and climatic extremes. The NEMO Nevada program has begun to develop a riparian buffer education program aimed at raising awareness of the structure and functions of these areas, and options for preservation. However, we find that residents are wary of efforts to protect these areas, and often do not understand their functions. We focus on several stealth elements, including a section on western buffers and approaches to buffer preservation on our website, [www.unce.unr.edu/nemo](http://www.unce.unr.edu/nemo). We've also authored a searchable database of plants that can be used in low impact development (LID) projects that includes appropriate riparian plants. In 2009, we launched a video contest for middle and high school students. The goal was to increase understanding of the role of riparian areas in water quality protection while encouraging the students to use social networking to get others to watch their videos. The theme for the contest was: How Carson River riparian areas benefit you and your community, and how to get people involved in riparian area preservation. Teens were invited to create and upload to YouTube a 1- to 3-minute-long video or animated slide show focusing on the theme. Winners received cash prizes and had their presentations featured at a film festival and in print media. A prize was awarded for the most-viewed video in YouTube, as well as the audience "popular vote" at the film festival. The final component of the buffer education program includes a series of focus groups, scheduled for October, that will probe residents' understanding and valuation of riparian buffer areas and help guide us in the production of relevant educational materials and events.

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# Climate Change Plenary Sessions

## Change Through a NEMO Lens

Friday, 8:30 AM

Atlantic Room

Moderator: Chet Arnold, UConn CLEAR

### Climate Change in Land Use Planning

*Presenter: Bruce Hyde, University of Connecticut Center for Land Use Education and Research*

Discussions on adapting to climate change often focus on the big (global) picture and the small (individual) picture. But between the worlds of carbon credits and efficient light bulbs lies the domain of local governmental units, and how they should respond to the climate change information coming at them from all directions. All NEMOids would agree that land use planning should play a large role in the response to climate change, but what can be realistically done, and just how far can a town or county go without a framework of consistent state and federal programs? This talk will ask these and many other questions, most of which have no clear answers but are still worth asking.

### Climate Change and the Economic Importance of an Urban Canopy

*Presenter: Ed MacMullan, Senior Economist, ECONorthwest*

Urban tree canopies provide a variety of ecosystem services that have economic significance. These services include: amenities, stormwater management, temperature regulation, air quality mitigation, and carbon

reduction. Climate change will affect both the supply of services and the costs of maintaining tree cover. The specific impacts of climate change will vary depending on the species makeup of the canopy and the canopy location within the U.S. In addition, urban canopies may provide resource managers with new revenues from the sale of carbon credits. For these reasons, resource managers in some municipalities consider the urban tree canopy as a public-infrastructure asset along with, for example, stormwater and wastewater systems.

### LID, Infrastructure & Climate Change

Information to come.

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# From Al Gore to Local Regulations

Friday, 10:15 AM

Atlantic Room

Moderator: Dave Dickson, National NEMO Network Coordinator

## Keene, New Hampshire

*Presenter: Rhett Lamb, City of Keene Planning Director*

Details to come.

## King County, Washington

*Presenter: Katrina Hoffman, WA Sea Grant*

Details to come.

## Virginia & Chesapeake Bay NEMO - Dealing with Climate Change at the Local Level

*Presenters: Jonathan Doherty, Amy Handen, John Kuriawa & Todd Janeski, Chesapeake Bay NEMO*

Sea level rise and increased storm surges pose risks to numerous sectors throughout Virginia's coastal communities, including public health, infrastructure and businesses, parks and recreation areas, hydrology and water resources; and biodiversity within coastal and inland ecosystems.

Virginia NEMO (VNEMO), Chesapeake NEMO (CNEMO) and the Virginia Coastal Zone Management Program have been working for the last several years to prepare coastal Virginia communities for changes in climate and sea level rise. The focus of the NEMO assistance has been in the communication of technical information at the staff level, while partnering with coastal planning district commissions to maximize effectiveness in communicating the findings. Two Virginia projects will be highlighted.

In the rural, peninsular region of the state, sea level rise has been evident for the last 50 years with increasing impacts to coastal communities, loss of private properties and impacts to infrastructure. VNEMO is partnering with the Middle Peninsula Planning District Commission to establish the Climate Change Advisory Workgroup, consisting of appointed county stakeholders representing the transportation, sanitation, public health, recreation, science, land planning, and local business communities. This project has identified the critical anthropogenic and ecological impacts of climate change and sea level rise to their respective sector as well as to the region.

In Northern Virginia, VNEMO and CNEMO partnered with the Northern Virginia Regional Commission to develop the Sustainable Shorelines Community Management Project to regionalize planning efforts for sea level rise and storm surge flooding. This three phase project focused on inventorying data related to the built and natural resources; assessing vulnerability broadly to identify targeted planning areas; and compiling existing local and state policy information. A workgroup of local, state, and federal representatives, universities, and others has been established to guide ground truth the project findings and assist in the development of adaptation planning strategy.

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# Concurrent Workshop Abstracts

## Forging the Link Between LID Research & Land Use Decisions

Friday, 1:30 PM

Atlantic Room

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*Presenters: Todd Janeski, Robert Roseen & James Houle, University of New Hampshire Stormwater Center & Michael Simpson, Antioch University*

Forging the Link is a training for NEMOids and other educators that focuses on articulating the critical economic connections between Low Impact Development (LID) planning and

- watershed health,
- community resiliency as it relates to land use effects on urban hydrology, and
- mitigation of infrastructure stresses from climate change.

Historically, the incentives for use of low impact development have been narrowly limited to water quality improvements; however, the message should be far broader. This training brings a body of quantitative information that articulates to local officials the economic and public safety incentives for adoption of LID. This project was developed following a regional partnership approach, which could have widespread transferability to a range of municipal interests nationwide and become an important element to addressing barriers to the implementation of more effective stormwater management strategies.

Overall, the training will present information and materials that advance these major objectives:

1. Detail the economic incentives for early adoption of innovative stormwater management.
2. Review the potential impacts from climate change including onto municipal infrastructure.
3. Draw clear connections between innovative stormwater management and climate change resiliency

The training will present sample seminars on LID, Economics of LID (Site design and to address CSO management), and LID as a Climate Change Adaptation Strategy, with case examples. A canned presentation and resource materials that you can adapt to your state accompany the workshop. This workshop will also incorporate a final feedback loop to assist the project team in finalizing the curriculum. The development of this project has utilized various end user outreach and engagement strategies, including surveys and focus groups, to refine content and messaging. At the end of this session, participants will be asked to provide input in the presentation component of the curriculum.

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# Never Say Never: You Too Can Create Cool Web Maps

Friday, 1:30 PM

Regency Room

*Presenters: Emily Wilson & Cary Chadwick, University of Connecticut CLEAR*

Once solely the province of those lucky few educators who had access to a GIS wizard/sorceress, the emergence of online map browsers like Google Maps have made the creation of engaging web map tools available to all.

This hands-on workshop will teach you how to take your data, pictures, and information and display them in a Google Maps Mashup. You will learn how to:

- decide what kind of online mapping approach fits a particular project;
- create a customized Google Maps mashup;
- set up a collaboratively built mashup;
- embed a mashup in a website;
- learn about resources for developing more advanced mashups.

It is a “bring your own laptop” (mac or pc) workshop that requires only a modest level of technical skill, but some prior preparation is required to ensure that attendees have the correct software. Participants should have all of the following prior to coming to the workshop (all are free):

- A **Google account** – If you don’t already have one, you will need to create one. Choose a password and a couple of other things, then click I accept. Create my account. That’s it! (Well, you also have to remember your password.)
- The **Google Earth browser** plugin.
- **Google Earth 5** installed on your computer.
- An **up-to-date internet browser or two** (Mozilla Firefox, Internet Explorer, Google Chrome, Safari) - It is a good idea to have more than one installed on your computer if possible, particularly if you are an Internet Explorer user.



*Spring Ledge Point Light. (Photo by Kara Bonsack)*

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# Shake Up Your Work with Social Science

Friday, 1:30 PM

Armory Room

*Presenters: Brian Eisenbauer, Plymouth State University, Chris Ellis, NOAA Coastal Services Center & Julia Peterson, NH Sea Grant and University of New Hampshire Cooperative Extension*

In your work as a NEMO/Coastal Community Agent of Change, have you ever wondered –

- What information does my target audience really need to make better land use decisions?
- What motivates my target audience to actually implement better resource protection practices?
- Who are the critical change agents in the communities I work with?

- Is my program accomplishing what I want it to?
- Is that sweet or dry vermouth in a vesper?

Maybe tactical training in basic social science would help you answer these and similar questions or help you find the right allies to do so. This workshop is designed to offer just enough background to enable you to choose the right social science frameworks, methods and partners to answer your human dimensions questions. Come to this workshop and walk away with new intelligence, secrets and weapons to improve your programs.



Portland Head Light. (Photo by Kara Bonsack)