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Center for the Environment 2016 NH Water & Watershed Conference 2016 NH Water & Watersheds Conference Agenda

## Center for the Environment

### 2016 NH Water & Watersheds Conference Agenda



We hope you will join us for the 2016 NH Water & Watershed Conference on March 18, 2016 at Plymouth State University. Below is the tentative agenda. There will likely be changes to the order of talks and timeline. Registration will be open in late January or early February.

**8:00 am: Registration**

**8:30 am – 9:30 am: Welcome & Plenary Talk**

**9:30 am – 10:00 am: Break & Poster Session**

**10:00 am – 12:00 pm: Morning Talks**

**Stormwater Management and MS4 Permits Chair: Dave Cedarholm**

- Watershed-Based Stormwater Compliance for New Hampshire MS4 Communities – David Cedarholm and Emily Scerbo
- Regulated Municipalities Want Clean Water Too – Barbara McMillan
- BMP Optimization for Cost Reductions in Municipal Stormwater Permitting – Robert Roseen and Nigel Pickering
- Performance evaluation of two undersized retrofit stormwater control measures. – James Houle

**Floods and Flood Hazards Chairs: Shane Csiki and Richard Kiah**

- Wood in Rivers: Flood Hazard Risk or Hazard Reduction Tool? – John Field
- Suncook River – Providing Resiliency to the Stream Channel Profile following a 100-year Flood Event – Nick Nelson and Steve Landry
- Flood Hazards, Assessment and Analysis in NH: Impacts, Results and Prospects – Shane Csiki and Ashley Inserillo
- Flood-Inundation Mapping Science – Gardner Bent

**Water and Infrastructure Chair: Brian Goetz**

- NHDES Be Well Informed Private Well App – An interactive web application for private well owners to



### CONTACT US

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### STUDENT BLOG

MS in Environmental Science & Policy Student Blog

interpret water quality test results and identify appropriate water treatment options – Brandon Kernen, PG, NH DES



- Utilizing local grass roots interest to identify impacts to aquatic resources from road stream crossings at the watershed level – Ben Nugent
- Modeling the Effects of Climate Change and Sea-Level Rise on Groundwater Levels and the Implications for Road Infrastructure in Coastal New Hampshire – Jayne Knott
- Groundwater Level Monitoring Plan for Protecting Public Water Resources from Prolonged Droughts – Jeffrey Marts

**Modeling New Hampshire's Water and Watersheds** Chair: Shannon Rogers

- Linking field measurements and numerical modeling to understand fluvial transport processes and nitrate retention in the Suncook River, NH – Meghan Arpino
- Natural vs. Anthropogenic Aquatic Infrastructure: How ecosystem services of DIN removal interact with wastewater treatment in the northeast US – Rob Stewart
- The role of river networks in regulating fecal coliform – Tao Huang
- Chloride impairment of the Merrimack River through 2100: the interactive roles of climate, development, and management – Shan Zuidema

**Measuring and Modeling New Hampshire's Water and Watersheds** Chair: TBD

- 2016 USGS Northeast Stream Quality Assessment – James Coles
- Why Ice Storms Aren't Cool: New Research at the Hubbard Brook Experimental Forest – Lindsey Rustad
- Where do forests end and streams begin? Intermittent streams in New Hampshire – Scott Bailey
- A spatiotemporal study on urban development in New England watersheds – Megan Corbiere

**12:00 – 12:45 pm: Poster Session & Lunch**

**12:45 – 2:15 pm: Afternoon Talks**

**Local Knowledge/Local Communities** Chair: Judy Tumosa

- Exploring the Local Ecological Knowledge of Surfers in Maine and New Hampshire – Sophia Scott
- Investing in forestland conservation and management for water services – Marcy Lyman and Spencer Meyer
- Water and Watershed Actions in the 2015 NH Wildlife Action Plan – Loren Valliere



**Watershed Planning & Management for Regulatory Compliance** Chair: Barbara McMillan

- Piscataqua Region Environmental Planning Assessment: Where Does Your Community Fit? – Abigail Gronberg
- Great Bay Pollutant Tracking and Accounting Pilot Project (PTAPP) – Sally Soule and James Houle
- Permeable Reactive Barriers for Reduction of Nitrate Discharge from Septic Systems – Preliminary Results from a Great Bay Pilot Study – Danna Truslow, PG and Mark Kelley, PE

**Water Ecosystem Services and the Value of New Hampshire's Water? Chair:**

Allison Watts

- Exploring approaches to assessing natural capital's role in environmental decision making—Insights from stakeholder engaged watershed case studies in New England – Shannon Rogers
- A novel deliberative multicriteria evaluation approach to ecosystem services valuation – Mark Borsuk and Georgia Mavrommati
- Ecosystem service valuation at regional scales using a coupled terrestrial and aquatic biogeochemical model – Nihar Samal

**Water and People Chair: Joe Boyer**

- Making a River Segment Family and People Friendly: A Case Study of the Pemi River in the Plymouth Region – Kenneth Evans, Larry Spencer, Patrick Hummel
- Water Trails – Lelia Mellen, National Park Service
- Milfoil Management in the Squam Lakes: Tentative Success in a 15 Year Battle – Rebecca Hanson

**Measuring and Modeling New Hampshire's Water and Watersheds Chair:**

Michelle Shattuck

- Attached algae as an indicator of water quality: a study of the viability of genomic taxonomic methods – Allison Wood
- Nitrogen Retention within Wetland-Dominated Stream Reaches in New England – Anne Lightbody and Sophie Wilderotter
- Non-Point Nitrogen Sources and Transport in the Great Bay Watershed – Michelle Shattuck

**2:15 – 2:30 pm: Break**

**2:30 – 4:00 pm: Water and Tourism in New Hampshire Panel Discussion – Moderator: Paul Susca**

**Panelists:**

- E.B. James of Squam Lakes Association
- Rusty McLear of Mill Falls at the Lake
- Adam Keul of Plymouth State University
- Roger Stephenson of Stephenson Strategic Communications
- Kris Blomback of Pat's Peak Ski Area



**Throughout the Day:**

**Posters on New Hampshire Water Topics – Chair: Carolyn Greenough**

- Plastic Marine Debris: A Novel Pathway for Mercury Contamination of Seafood? – Sasha Adkins
- The Social Indicator Project: Integrating Social Science into Ecosystem Management for New Hampshire's Estuaries – Simone Barley-Greenfield & Jill Farrell
- Reaching Out to Landowners and Communities in the Merrimack River Watershed – Karen Bennett & Alicia Carlson
- Understanding Storm Event Nitrate Export in Different Land Uses – Christopher Cook
- An Algorithm for Analyzing Streamwater Specific Conductance Time Series – Daniel Demers
- High-Flow Transport of Metals Downstream of Ore Hill Mine, Warren, NH – Brittani Doran

- Monitoring Strategies for Characterizing Streamwater Inorganic Monomeric Aluminum – Carly Ellis
- Quantifying Morphological Location of hsp70 Stress Protein Expression in Mayflies – Roy Fruit
- Lotic Nutrient Loading to the Moultonborough Bay, Lake Winnepesaukee – Cory Guwa
- Northern NH Snow Records from 1930 to 2015 – Marina Plopeanu & G.L.D. Murray



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Current Weather in Plymouth

Clear. **Temperature: 17; Wind: W**  
at 8; Conditions as of Fri Jan 22 at 08:00 AM  
EST courtesy of The PSU Weather Center

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