

ATTACHMENT A: UNHSC Collaborators List:

Graduate Students (10) With Associated Research Topic:

Advisee: Avellaneda, Pedro (Ph.D. Recipient): A Bayesian Stormwater Quality Model.

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH, Dr. John M. Davis, Associate Professor of Hydrogeology UNH.

Advisee: Barbu, Iulia (Ph.D. Candidate): Effect of Conventional and LID strategies on the statistical characteristics of site runoff quantity and quality

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH.

Advisee: Briggs, Joshua (M.S. Recipient)

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH, Dr. Jo Sias Daniel, Associate Professor of Civil Engineering UNH.

Advisee: Digenaro, Nicholas (M.S. Candidate): Effect Of Best Management Practices on Stormwater Runoff Temperature

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH.

Advisee: Fowler, George (M.S. Candidate): Examination of Sediment Concentration Methods in Surface Water Runoff

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH, Dr. Qizhong (George) Guo, Associate Professor of Civil Engineering Rutgers.

Advisee: Houle, Kristopher (M.S. Candidate): Performance Assessment of Porous Pavement in a Northern Climate.

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH, Douglas Heath, USEPA Region I.

Advisee: Kirk, Barton (University of Vermont M.S. Recipient)

Advisors: Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH

Advisee: Maimes, Julie (M.S. Candidate): Microbial Processes In Stormwater Treatment Systems

Advisors: Dr. Stephen H. Jones, Research Associate Professor of Natural Resources and The Environment, UNH, Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH.

Advisee: Scholz, Ann (M.S. Candidate): Topic of study to be determined

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH.

Advisee: Wildey, Robert (M.S. Recipient): Microbial Proliferation in Treatment Systems

Advisors: Dr. Thomas P. Ballesterio, P.E., Associate Professor of Civil Engineering UNH, Dr. Robert. M. Roseen, P.E., Assistant Research Professor of Civil Engineering UNH, Dr. Stephen H. Jones, Research Associate Professor of Natural Resources and The Environment, UNH.

Additional Research and Grants Written and Awarded:

Evaluation of a Bioretention System.

Collaborators: National Association of Homebuilders: Contact: Marie T. Del Bianco
NAHB Research Center, 400 Prince George's Blvd., Upper Marlboro, MD 20774
(301) 430 6315.

Evaluation of a Manufactured Treatment Device.

Collaborators: Advanced Drainage Systems. **Source of funding:** Advanced Drainage Systems. Contact: Kevin Miller, P.E., Product Manager, Advanced Drainage Systems, 4640 Trueman Boulevard Hilliard, OH 43026.

Evaluation of a Manufactured Treatment Device.

Collaborators: AquaShield Inc. **Source of funding:** AquaShield Inc. Contact: Kelly Williamson, CEO
AquaShield Inc., 2705 Kanasita Drive Chattanooga, TN 37343

Evaluation of a Manufactured Treatment Device.

Collaborators: StormTech LLC **Source of funding:** StormTech LLC. Contact: David Mailhot, P.E.,
Product Manager, StormTech LLC, 20 Beaver Road Wethersfield CT 06190

Evaluation of two Manufactured Treatment Devices.

Collaborators: Hydro International. **Source of funding:** Hydro International. Contact: Bob Andoh,
Director of Innovation, Hydro International, 94 Hutchins Drive Portland, ME 04102.

Forging the Link: Development of a training curriculum that clearly articulates the barriers to implementation to innovative stormwater management and provides information on incentives to be early adopters of LID Practices.

Collaborators: Todd Jeneski, Michael Simpson, Antioch College, CTP coordinators from National Estuarine Research Researves. **Source of funding:** CICEET

Investigation of Nutrient Removal Mechanisms of a Constructed Gravel Wetland Used for Stormwater Control in a Northern Climate. **Collaborators:** New England Interstate Water Pollution Control Commission (NEIWPCC) Contact: Laura Chan, Environmental Analyst, NEIWPCC, 116 John Street Lowell, MA 01852. **Source of funding:** EPA AWPP Program, 2007-2008.

Stormwater Outreach Education Support in New England Region I.

Collaborators: USEPA Region I. Contact: MaryJo Moubry Feuerbach USEPA Region 1, New England Office, 1 Congress Street 11th Floor Boston, MA 02114-2023. **Source of funding:** EPA Non-Point Source Grant

Water Quality Assessment of a Swale with Engineered Filter Berms.

Collaborators: Maine Department of Transportation. Contact: Peter Newkirk, P.E.
MaineDOT ENV Office, 16 State House Station, Augusta, Maine 04333

Source of funding: Maine Department of Transportation, Environmental Office.

Microbial Population Dynamics and Pollution Source Tracking:

Collaborators: Stephen Jones, Associate Research Professor, Department of Natural Resources, UNH.
Contact: Robert Roseen UNHSC. **Source of funding:** CICEET/NOAA

PAHs and Sealcoated Parking Lots.

Collaborators: Peter VanMetre, USGS. Contact: Alison Watts, UNHSC **Source of funding:** NH Sea Grant

Performance Assessment of Pervious Concrete in a Northern Climate

Collaborators: The Northern New England Concrete Promotion Association (NNECPA), Northeast Cement Shippers Association (NECSA), UNH Transportation Services, UNH Dept. of Civil Engineering.
Contact: Robert Roseen UNHSC. **Source of funding:** NNECPA, NECSA, UNH Transportation Services, PCI Systems, and CICEET.

Pilot Scale Study Of Aircraft Deicer Treatment In A Gravel Wetland

Collaborators: Manchester-Boston Regional Airport. Contact: Robert Roseen UNHSC. **Source of funding:** CICEET/EPA

Rhode Island Stormwater BMP Manual: Erosion and Sediment Control, Post-Construction Stormwater BMPs, and Pollutant Reduction. **Collaborators:** Horsley Witten Group, Inc and Loon Environmental.
Contact: Robert Roseen UNHSC. **Source of funding:** Rhode Island Department of Environmental Management

Notable local consultant/in-kind contributions:

Design and Construction of a Pervious Concrete Test Facility at UNH (2006-Present). Approximate value \$350,000. **Collaborators/Contact:** Jon Kuell, Executive Director, Northern New England Concrete Promotion Association, 50 Market Street Suite 1A #221, South Portland, ME 04106.

Hugh Gregg Coastal Conservation Center, New Hampshire Fish and Game Department, Greenland, NH (2005- Present) **Collaborators/Contact:** Peter Wellenberger, Reserve Manager and Research Coordinator NH Fish and Game Department 225 Main Street, Durham, NH 03824.

Interstate 93, Exit 2 Park and Ride, Gravel-Wetland Design Project, New Hampshire Department of Transportation (2005- Present). **Collaborators/Contact:** Keith Cota, Chief of Consultant, Design Bureau of Highway Design, 1 Hazen Drive, Concord, NH 03302.

RICRMC Seeks Improved Management of Stormwater Runoff (2007-Present). **Collaborators/Contact:** Grover Fugate, Executive Director, Coastal Resources Management Council of Rhode Island.

Unfunded Contributions/Partnerships

Advisory Committee for New Alteration of Terrain Rules, New Hampshire Department of Environmental Services (2005-Present). **Collaborators/Contact:** Amy Clark, PE., New Hampshire Department of Environmental Services, Water Division - Alteration of Terrain, PO Box 95 - 29 Hazen Drive, Concord, NH 03302.

Draft Pollutant Load Reduction Manual, New Alteration of Terrain Rules, New Hampshire Department of Environmental Services (2005-Present). **Collaborators/Contact:** Gregg Comstock, PE., Supervisor, New Hampshire Department of Environmental Services, Water Quality Planning, Watershed Management Bureau, 29 Hazen Drive, Concord, NH 03302

National Testing Protocol Committee

The Center sits on the ASCE/EWRI Task Committee on Guidelines for Certification of Manufactured Stormwater BMPs. **Collaborators:** ASCE/EWRI

Oyster River Culvert Assessment

As part of EPA Climate Ready Program, NH Estuaries Program will perform a culvert assessment within Oyster River Watershed. **Collaborators:** NHEP, NHDOT, NHRPC, and the town of Durham, NH. Contact: Derek Sowers, Program Coordinator NHEP, Nesmith Hall, Durham NH 03824

Targeted BMP Trainings for Coastal Training Programs. **Collaborators:** CICEET, CSC, Old Woman Creek Reserve, Jaques Custeau Reserve.