

## Stormwater System Design and Performance

August 5, 2009

### Instruction Biographies

#### James Houle

Outreach Coordinator/Program Manager

University of New Hampshire

Stormwater Center

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James Houle is the Outreach Coordinator and Program Manager for the Stormwater Center. His responsibilities include development of outreach and education products, and supervising the Stormwater Center's growing body of research projects. Mr. Houle holds a M.A. in Sustainable Development and a B.S. in Molecular Biology. He has over seven years of experience with water quality related issues in New Hampshire and is a certified professional in storm water quality (C.P.S.W.Q.) In addition to his technical expertise, Mr. Houle is also experienced in environmental systems analysis, systems thinking facilitation, and served three years in the U.S. Peace Corps in Ghana.

#### EDUCATION:

##### **Master of Arts in Sustainable Development, 2003**

School for International Training, Brattleboro, VT

Focus on water resource management.

##### **Bachelor of Science – Major: Molecular and Developmental Biology, 1995**

University of New Hampshire, Durham NH

Honors: Cum Laud, Undergraduate research award

#### PROFESSIONAL SKILLS

Stormwater Management and Design

Outreach and Technical Training

Stream Restorations, Riparian, and Wetland Studies

Stormwater & Surface Water Hydrology

Environmental Systems Analysis

Field Sampling Methodology and Analysis

Project Management

#### PROFESSIONAL CERTIFICATIONS

Certified Professional in Storm Water Quality (CPSWQ)

#### PROFESSIONAL EXPERIENCE:

##### **Program Manager, Outreach Coordinator**

University of New Hampshire Stormwater Center, Durham NH (2003-Present)

- Responsible for management and maintenance of a state of the art stormwater research facility
- Development of outreach programs and educational materials.
- Supervise and conduct research related to stormwater BMP treatment effectiveness
- Oversee and assist a cadre of researchers and students.
- Present and disseminate associated findings to various information users

##### **Program Developer**

Ocean Arks International, Burlington VT (3 month practicum position)

- Responsible for program management and strategic development of educational programs for an ecological wastewater treatment facility.
- Designed assessment and evaluation tools for program monitoring.
- Planned multi-sector stakeholder meetings.

##### **Program Director**

New Outlook, Exeter NH (2000-2001)

- Directed development, implementation, and administration of all programs in a Non-profit Organization with a mission to provide an environment that engages youth in opportunities that nurture belonging, independence, resilience, and social responsibility for at-risk youth.
- Responsible for direct service to youth, families and all partner organizations.

**Research Manager**, Environmental Microbiology

Jackson Estuarine Laboratory, Durham NH (1999-2000)

- Coordinated and directed staff of three undergraduate researchers and one research assistant studying various water quality issues around the Great Bay in NH.
- Conducted scientific research involving point-source pollution tracking, water quality analysis, and molecular gene probing.
- Responsible for data processing, analysis, and reporting of findings.

**PROFESSIONAL EXPERIENCE CON'T:**

**Volunteer Leader**

U.S. Peace Corps, Ghana West Africa (1997-1998)

- Responsible for support of sixty-one volunteers in the Northern three regions of Ghana.
- Reported directly to Peace Corps in-country administrative staff.
- Conducted exploration and assessment of existing and potential program sites.
- Managed a regional sub-office.

**Volunteer**

U.S. Peace Corps, Ghana West Africa (1995-1997)

- Science Teacher Bongo Senior Secondary School
- Involved in numerous secondary projects relating to environment, grass roots water resource engineering and aquaculture initiatives.

**RECENT PUBLICATIONS**

- Roseen, R. M., Ballesterro, T. P., Houle, J. J., Avelleneda, P., Wildey, R., and Briggs, J. F. (2006). "Performance evaluations for a range of stormwater LID, conventional structural, and manufactured treatment strategies for parking lot runoff under varied mass loading conditions." Transportation Research Record: Journal of the Transportation Research Board(No. 1984), 135–147.
- Roseen, R. M., T. P. Ballesterro, Houle, J. J., Avelleneda, P., Briggs, J. F., Fowler, G, and , Wildey, R. (2007). "Seasonal Performance Variations for Stormwater Management Systems in Cold Climate Conditions." Journal of Environmental Engineering-ASCE. Submitted February 2007
- Wildey, R.W., R.M. Roseen, TP. Ballesterro, J. J. Houle, Stormwater Management Measures and their effect on fecal indicator bacteria, In-draft, intended for Journal of Environment, Science and Technology fall 2008.
- Roseen, R.M., TP. Ballesterro, J.J. Houle, P Avelleneda , RW Wildey, JF. Briggs, An Examination of Cold Climate Performance of Low Impact Development Stormwater BMPs in A Northern Climate, In-draft, intended for the ASCE Journal of Environmental Engineering to be submitted fall 2008.
- Briggs, JF, R.M. Roseen, TP. Ballesterro, J.J. Houle , Porous Asphalt as a Stormwater Treatment Strategy, In-draft, intended for the ASCE Journal of Environmental Engineering by fall 2008.

**LANGUAGES:**

- Advanced Spanish speaker
- Intermediate in Guruni
- Intermediate in Twi

**GEOGRAPHICAL EXPERIENCE:**

- United States (NH, VT, MI, HI)
- Ghana, West Africa

**PROFESSIONAL AFFILIATIONS:**

- Member of New Hampshire Estuary Program’s Water Quality Team – 2002 – Present
- Member of Isinglass River Local Advisory Committee – 2004 – Present

**HONORS/AWARDS:**

- National Peace Corps Association Scholar

**Dan Bogoevski**

Storm Water Coordinator  
Ohio EPA - Northeast District Office  
2110 East Aurora Road  
Twinsburg, Ohio 44087  
(330) 963-1200

Dan Bogoevski is a storm water program coordinator at the Ohio EPA Northeast District Office. The Northeast District Office covers the 15 northeastern-most counties of Ohio, where more than one-third of the state's population resides. Dan is responsible for ensuring compliance with Ohio EPA's NPDES permits for storm water runoff. Job duties include review of Storm Water Pollution Prevention Plans, site inspections, audits of municipal storm water management programs and initiation of enforcement actions. Dan has been with Ohio EPA for 16 years and has helped develop the agency's NPDES storm water permits, rules and guidance materials.

Dan is a Certified Erosion Sediment and Storm Water Inspector (CESSWI) and holds a BS degree in Chemical Engineering from Case Western Reserve University, an MS in Chemical Engineering from Ohio State University and an MBA from Case Western Reserve University's Weatherhead School of Management. In 2008, he received the Wayne S. Nichols Award from the Water Management Association of Ohio for his demonstrated leadership in the NPDES storm water permit program.

**Amy Holtshouse Brennan**

Director  
Chagrin River Watershed Partners, Inc.  
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(440) 975-3870

Amy Holtshouse Brennan is the Director of the Chagrin River Watershed Partners, Inc. Ms. Brennan is responsible for providing technical assistance to CRWP members on flood control, erosion control, water quality protection zoning code updates, developing and tracking implementation of the *Chagrin River Watershed Balanced Growth Plan* and *Chagrin River Watershed Action Plan*, and a range of other member services including grant applications, site plan review, landowner assistance, and natural resource evaluations.

The Chagrin River Watershed Partners, Inc. (CRWP) is a non-profit educational and technical organization located in Willoughby, Ohio. CRWP works directly with these members and their residents to minimize flooding, erosion, and water quality problems. Currently, CRWP has 36 members representing approximately 94% of the Chagrin River watershed.

Ms. Brennan received her Bachelor of Arts in zoology and environmental studies from Ohio Wesleyan University. She received a Masters in environmental science Indiana University's School of Public and Environmental Affairs. Before joining CRWP, Amy worked for Ohio EPA, Division of Surface Water reviewing 401 Water Quality Certification applications for stream, lake & wetland impacts and associated mitigation and was a hydrologist with the National Oceanic and Atmospheric Administration National Weather Service, Ohio River Forecast Center.