SCHOOL OF CONTINUING EDUCATION

UNIVERSITY OF WISCONSIN MILWAUKEE

SPRING 2014

Water Technology

SCE-WATERTECHNOLOGY.UWM.EDU
WATER TECHNOLOGY

Making a Splash
When you enroll in a Water Technology class at the UWM School of Continuing Education, you join a powerful network of professionals. And as you advance your own career, you’re also advancing the global impact your community is making as a vital water hub.

As Wisconsin’s premier public, urban university, UWM has a strong international reputation for excellence in education. Join real-world explorers, innovators and entrepreneurs at SCE, and help lead the way in Water Technology.

Complete Your Certificate 🏆
Earn the Water Technology Certificate by attending nine or more days of related courses within two years.

All Water Technology courses are eligible for American Society of Landscape Architects (ASLA) professional development hours (PDHs).

Instructors
Kellen J. Black, Environmental Specialist, GAI Consultants, Inc.
Scott Bordeau, Founder, ERO-TEX
Lesley Brotkowski, Associate Director of Natural Resources, BHE Environmental, Inc.
Minal Hahm, Principal, M Squared Engineering, LLC
Bryan Harstook, Water Resources Engineer, Wisconsin DNR
Sean Hayes, Environmental Engineer, Milwaukee County Department of Transportation and Public Works
Tom Mortensen, Registered Landscape Architect / Site Planner, RA Smith National
Vladimir Novotny, Professor Emeritus, Marquette University and Northeastern University (Boston, MA)
Dr. Neal O’Reilly, Vice President of Water Resource Planning, Hey and Associates, Inc.
Dick Osantowski, Principal Engineer, URS Corporation
Ginny Plumeau, Vice President of Natural Resource Management, BHE Environmental, Inc.
Peter Shedivy, Water Resources Engineer, HNTB Corporation
Mike Warren, Product Manager, Watertronics Inc

All programs are held in Milwaukee, Wisconsin. For full instructor bios and course descriptions visit sce-WaterTechnology.uwm.edu or contact:

Murali Vedula
Program Director
mvedula@uwm.edu
414-227-3121

Marcia Gabriel
Program Manager
gabrielm@uwm.edu
414-227-3378
Design and Maintenance of Stormwater Infiltration Practices

Learn to plan, design, construct and maintain complex infiltration systems through studying a variety of issues: The science of soils and infiltration, pretreatment of stormwater runoff, vegetation to use in infiltration systems, and more.

**Learning Outcomes**
- Evaluate water quality as it relates to stormwater runoff
- Perform site investigations and monitoring
- Plan infiltration systems

**Thu.-Fri., Jan. 16-17, 8am-4:30pm**
**Instructor:** Neal O’Reilly
**Fee:** $295
**CEUs:** 1.4/ PDHs: 14
**Program No.** 4830-6363

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**Introduction to Wastewater Treatment**

Develop a fundamental background in municipal and industrial wastewater treatment, from theory to practical applications with real-world case studies. Build your knowledge base with an overview that includes relevant legislation, sampling and analytical procedures, and wastewater treatment processes.

**Learning Outcomes**
- Gain an understanding of the Clean Water Act
- Identify physical, chemical and biological treatment processes
- Know the basics in municipal and industrial treatment options

**Thu., Feb. 27, 8am-4:30pm**
**Instructor:** Dick Osantowski
**Fee:** $290
**CEUs:** 0.7/ PDHs: 7.0
**Program No.** 4830-5920

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**Phosphorus Compliance Innovations to Improve Water Quality**

Because of new phosphorus control regulations, watershed-focused compliance options for point sources are “ready for primetime.” Implementing the watershed adaptive management option and water quality trading require point sources and agricultural producers to understand each other’s needs. Develop your understanding of the financial, technical and time constraints that participants face as well as the key issues that need to be addressed to create an agreement that can be approved by regulators and implemented by the parties.

**Learning Outcomes**
- Delve into this novel approach to improving water quality, with leaders who are actively involved
- Explore two ongoing examples of point sources, including the evaluation and planning phases of watershed adaptive management
- Understand how leaders with a variety of perspectives on the issue view moving forward with adaptive management and water quality trading projects

**Thu., Mar. 6, 8am-4:30pm**
**Instructors:** Chris Clayton and Southeastern Wisconsin Watersheds Trust, Inc. (Sweet Water)
**Fee:** $195
**CEUs:** 0.7/ PDHs: 7.0
**Program No:** 4830-6785

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Go online for a full list of courses.

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“The Water Technology Certificate helped me to accomplish my goal of incorporating new ideas that I didn’t see on a day-to-day basis.”

Gail O.
Sustainable Water-Centric Communities

Discover a major shift in the way new cities will be built and older ones retrofitted to achieve sustainable development. Learn how the future sustainable city will power itself with renewable sources of energy, conserve and reuse water, create the smallest possible ecological footprint, recover resources from used water and organic solids, and produce the lowest quantity of pollution possible.

Learning Outcomes
- Apply a new paradigm to the cities of the future
- Restore and develop a functioning landscape community, resilient to increased flooding
- Understand sustainability planning and implementation for a large water/stormwater utility

Course Accessible: Apr. 7-May 30  
Instructor: Vladimir Novotny  
Fee: $695  
CEUs: 1.8/PDHs: 18/ACIP CM: 18  
Program No. 4830-6783

Water Harvesting Systems and Application

Get an overview of water harvesting system intent, usage, design and installation. Learn about the components and operation of residential and commercial systems. This includes detailed information on tank sizing, filtration and water quality, controls, and operational requirements.

Learning Outcomes
- Understand water harvesting principles and technologies
- Participate in a design exercise for practical application
- Review case studies and concepts

Fri., Apr. 11, 8am-4:30pm  
Instructor: Mike Warren  
Fee: $145  
CEUs: 0.7/PDHs: 7.0  
Program No. 4830-6023

Sustainable Water Management – An Introduction

Lay the foundation for quality water resources in the future by learning to manage them today. Cover concepts for long-term sustainability by focusing on environmental science, engineering, public health, and the social and economic benefits that clean, safe water provides.

Learning Outcomes
- Recognize sustainable water management practices
- Provide clean, safe water for your community
- Apply basic design concepts for sustainable water management

Thu., Feb. 20, 8am-4:30pm  
Instructor: Dick Osantowski  
Fee: $290  
CEUs: 0.7/PDHs: 7.0  
Program No. 4830-5928

OR

Course Accessible: Jan. 20-Feb. 28  
Program No. 4830-6367

Wisconsin Sedimentation & Erosion Control Inspector (WISECI)™ Best Management Practices

Learn techniques to establish stormwater Best Management Practices (BMPs) for your construction site, and eliminate problems before they cause higher costs and slowdowns for your project. Save time and money by avoiding erosion and sediment releases. Learn about proper installation and maintenance of typical BMPs as well as proper documentation to help keep your project in compliance with local and state regulations.

Learning Outcomes
- Develop expertise in site inspection and reporting
- Assess erosion and sedimentation releases
- Earn the designation WISECI when you pass the exam at the end of this course

Thu.-Fri., Mar. 13-14, 8am-4:30pm  
Instructors: Kellen Black, Scott Bordeau, Minal Hahm, Bryan Harstook, Ginny Plumeau, Peter Shedivy  
Fee: $395  
CEUs: 1.4/PDHs: 14  
Program No. 4830-5976

= Online
Register:
sce-registration.uwm.edu
800-222-3623 | 414-227-3200
Mon.-Fri., 8am-5pm CST

Location:
Programs will be held at the UWM School of Continuing Education, 161 W. Wisconsin Avenue. SCE is conveniently located in downtown Milwaukee.

For the latest information on getting to and from SCE, visit sce-directions.uwm.edu. The webpage includes access to printable color PDFs of current maps, information about parking, public transportation information and other details relevant to our location. Visit sce-hotels.uwm.edu for an abundance of nearby lodging and entertainment options.

Program Cancellations/Refunds
A full refund is issued to program participants if the School of Continuing Education cancels a program for any reason. Participant withdrawals made at least two weeks (14 days) prior to the start of a program can receive a 100% refund. When a participant withdraws less than two weeks prior to the program start, participants may have their fees transferred one time to any currently available program, otherwise participants will receive a refund minus a 20% administrative fee. For programs with a fee of $35 or less, no refund will be given, if a participant withdraws within two weeks of the start date. Once a program has begun, refunds are no longer issued.

More SCE Professional Development Opportunities:

- BUSINESS
  sce-business.uwm.edu

- BUSINESS PROCESS IMPROVEMENT
  sce-businessimprovement.uwm.edu

- ENGINEERING
  sce-eng.uwm.edu

- LANGUAGES
  sce-languages.uwm.edu

- MANAGEMENT DEVELOPMENT
  sce-mgmt.uwm.edu

- ORGANIZATIONAL DEVELOPMENT
  sce-od.uwm.edu

- PROJECT MANAGEMENT
  sce-pm.uwm.edu

- SMALL BUSINESS DEVELOPMENT CENTER
  sce-sbdc.uwm.edu

- SOCIAL MEDIA
  sce-social.uwm.edu

- TRAIN THE TRAINER
  sce-ttt.uwm.edu

Personal Enrichment Opportunities:

Learn a New Language. Explore a New World.

At SCE, you can discover culture, ease your travel experiences and exercise your mind through face-to-face and online language courses:

- American Sign Language
- Chinese
- French
- German
- Italian
- Japanese
- Korean
- Portuguese
- Russian
- Spanish
- Swedish

Don’t forget to use these codes when registering!

WPDF

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