Water Technology

SPRING 2015

UWM.EDU/SCE-WATERTECHNOLOGY
The Next Wave of Water Technology Training
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.

Instructors
Kellen Black, Environmental Specialist, GAI Consultants, Inc.
Scott Bordeau, Founder, ERO-TEX
Carrie Bristol-Groll, Principal Civil Engineer, Stormwater Solutions Engineering, LLC
Adrienne Cizek, Ph.D., Consultant for Stormwater Best Practices
Adam Dunkelberg, Environmental Technician, TRC Environmental
Neal O’Reilly, Ph.D., PH, Environmental Engineering Faculty, UW-Milwaukee
Dick Osantowski, P.E., Principal Engineer, URS Corporation
Ginny Plumeau, Vice President of Natural Resource Management, BHE Environmental, Inc.
Peter Shedivy, Water Resources Engineer, HNTB Corporation
Pete Wood, Water Resources Engineer, Wisconsin DNR

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

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Design and Maintenance of Stormwater Infiltration Practices

Infiltration of stormwater has become an important topic in the management of urban runoff. Many communities now require infiltration of stormwater to help reduce pollutant discharges and recharge local groundwater systems. Under Wisconsin Administrative Code NR 151.12, a percent of stormwater runoff must be infiltrated on new development and redevelopment. Prior to infiltration, pretreatment is required for parking lot runoff and for runoff from new road construction in commercial, industrial and institutional areas. Discover the planning, design, construction and maintenance of complex infiltration systems.

The following issues will be addressed: Why infiltration of urban stormwater is important to water quality; Science of soils and infiltration; Site investigations; Pretreatment of stormwater runoff; Infiltration basins; Infiltration trenches and injection wells; Vegetation to use in infiltration systems; Monitoring and maintenance.

Learning Outcomes

• Evaluate water quality as it relates to stormwater runoff
• Perform site investigations and monitoring
• Learn how to plan infiltration systems

Thu.-Fri., Jan. 15-16, 8am-4:30pm
Instructor: Neal O’Reilly, Ph.D., PH
Fee: $295
CEUs: 1.4/PDHs: 14
Program No. 4820-7849

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. 12, 8am-4:30pm
Instructor: Dick Osantowski, P.E.
Fee: $290
CEUs: 0.7/PDHs: 7
Program No. 4820-7851

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. 26, 8am-4:30pm
Instructor: Dick Osantowski, P.E.
Fee: $290
CEUs: 0.7/PDHs: 7
Program No. 4820-7850

“The instructors really do a wonderful job of bringing new ideas, new technology and new research and showing how they’re being applied today.”

-- Gail Epping Overholt, Natural Resources Educator, UW-Extension
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., March 12-13, 8am-4:30pm**

Instructors: Ginny Plumeau, Scott Bordeau, Kellen Black, Adam Dunkelberg, Peter Shedivy, Pete Wood, P.E.

Fee: $395

CEUs: 1.4/PDHs: 14

Program No. 4820-7525

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Ecosystem Services in Stormwater Control Measures

Learn about the value of healthy, functioning, natural ecosystems for urban and suburban areas through the services they provide to humans (“ecosystem services”). Common examples of these services include air purification, carbon sequestration, temperature regulation, water treatment, and waste assimilation. Be challenged to evaluate where healthy, functioning ecosystems may be found in and near (sub)urban areas, and whether we can supplement these natural ecosystems with engineered ecosystems such as stormwater control measures (SCMs).

**Learning Outcomes**

- Describe and identify ecosystem services and their importance to urban areas
- Identify possible locations for increasing ecosystem services in urban areas
- Understand limitations and potential for ecosystem services in SCMs

**Thu.-Fri. May 14-15, 8am-4pm**

Instructors: Adrienne Cizek, Ph.D., Carrie Bristoll-Groll

Fee: $295

CEUs: 1.4/PDHs: 14

Program No. 4850-8100

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You May Also Like

### Analysis and Database Tools

Analysis and reporting of data requires knowledge of Microsoft Excel, Access and SQL databases. Learn new skills or increase your proficiency with today’s leading technology and software programs.

Visit [uwm.edu/sce-computerapps](http://uwm.edu/sce-computerapps) for specific course details.

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### Project Management

Learn proven methods for leading your projects to success. Our comprehensive project management curriculum provides the skills to work within time, quality, cost and technical constraints, while focusing on customers’ real needs.

Visit [uwm.edu/sce-pm](http://uwm.edu/sce-pm) for specific course details.

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### Technical Writing for Non-Writers

If you write manuals, documentation, proposals and reports, you will benefit from this one-day session. Learn proven approaches and techniques, and apply them immediately back on the job to achieve successful written communication of technical information.

Visit [uwm.edu/sce-communication](http://uwm.edu/sce-communication) for specific course details.
Register:
uwm.edu/sce-registration
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 uwm.edu/sce-directions. 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 uwm.edu/sce-hotels 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. Once a program has begun, refunds are no longer issued.

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  uwm.edu/sce-ttt

Personal Enrichment Opportunities:
Discover culture, ease your travel experiences and exercise your mind through face-to-face and online LANGUAGE COURSES:
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