



Green Stormwater Infrastructure Design & Installation Workshop

Constructed Stormwater Wetlands



March 27, 2019

Iowa State Lab Facility Conference Room (DMACC)
9:00AM - 4PM (Check in at 9AM)

REGISTER ONLINE:
IowaStormwater.org

Who should attend: City, county, and conservation district staff that review and approve plans for green infrastructure, professionals that are involved with the design and construction of green infrastructure, and anyone that wants to learn how to design, install, and maintain constructed wetlands for stormwater management.

Registration Fees: General registration for this event is \$130.00. City, educational, and business members of ISWEP are eligible to receive discounted registration by using applicable promotional codes.

Registration Minimum: 10 people

Cancellation Policy: Full refund or credit of registration fee if cancellation notification is received three or more working days prior to event; 50% refund if notice is received less than three working days prior to event and no refund or credit is given for no notification/no-shows the day of event except in extenuating circumstances. Registration is transferable.

Certification Note: This training course counts toward the completion of the ISWEP Green Infrastructure Certificate.

Course Instructors:

- Jennifer Welch, Polk County Soil and Water Conservation District
- John Swanson, Polk County Soil and Water Conservation District
- Amy Bouska, Iowa Department of Agriculture and Land Stewardship
- Greg Pierce, RDG Planning & Design
- Paul Miller, Iowa Department of Agriculture and Land Stewardship
- Judy Joyce, Impact7G
- Doug Mensing, Applied Ecological Services
- Matt Lasch, Applied Ecological Services

Training Agenda

- 8:30-9:00 **Check In**
- 9:00-9:25 **Stormwater Wetlands: Applications to manage and treat stormwater**
Jennifer Welch, Polk Soil & Water Conservation District
- 9:25-9:50 **Locating Stormwater Wetlands in Communities: Identify and evaluate sites**
John Swanson, Polk SWCD
- 9:50-10:20 **Siting and Preliminary Design: Modeling, wetland footprint, placing wetland elements**
Greg Pierce, RDG Planning & Design
- 10:20-10:35 **Break**
- 10:35-11:25 **Final Design: Stage-storage routing, release rates, managing for unified sizing criteria**
Greg Pierce, RDG Planning & Design
- 11:25-12:00 **Design Checklist and Calculation Worksheets, Supporting Documentation**
Paul Miller, IDALS & Greg Pierce, RDG Planning & Design
- 12:00-12:30 **Lunch**
- 12:30-1:00 **Maximizing the Ecological/Ecosystem Benefits: Design impacts on ecology, wildlife & conservation planning considerations**
Doug Mensing, Applied Ecological Services, Inc
- 1:00-1:45 **Vegetation Selection, Proper Seeding & Planting of Natives: Seed mixes, plant choices, benefits of native species**
Judy Joyce, Impact7G
- 1:45-2:15 **Construction and Phasing: Reaching Successful Endpoints**
Amy Bouska, IDALS
- 2:15-2:45 **Native Establishment, Long-Term Maintenance and Inspection: Maintenance plans, native and invasive species management, prescribed burns**
Matt Lasch, Applied Ecological Services, Inc
- 2:45-3:00 **Frequently Asked Questions and Learning Experiences**
- 3:00-4:00 **Case studies**

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Speaker Bios

Jennifer Welch is an urban conservationist with Polk SWCD. She specializes in implementing and overseeing installations of green infrastructure in central Iowa. She reviews, plans, and oversees implementation of WQI and SRF green infrastructure BMPs. Some of these projects have included wetlands.

John Swanson is a watershed coordinator for several watersheds in the Des Moines Metro. He has been involved with site selection for constructed wetlands used for stormwater management.

Amy Bouska is an urban conservationist with the Iowa Department of Agriculture and Land Stewardship (IDALS) and is located in Johnson County. She is instrumental in the implementation of WQI and SRF projects, some of which have included wetlands.

Greg Pierce is a water resources engineer for RDG Planning & Design. He has been involved with the creation of the new wetland design guideline in the Iowa Stormwater Management Manual. Greg has designed and installed wetlands and other green infrastructure throughout Iowa.

Paul Miller oversees the IDALS urban conservation program. He is involved with green infrastructure project review and implementation throughout Iowa.

Judy Joyce is a professional wetland scientist with Impact7G. She has experience with wetland science, soils, and geomorphology. Judy has been involved with vegetation selection and establishment on constructed wetland projects in Iowa.

Doug Mensing is an ecologist with AES and has extensive experience with wetland assessment, vegetation, and monitoring long term performance.

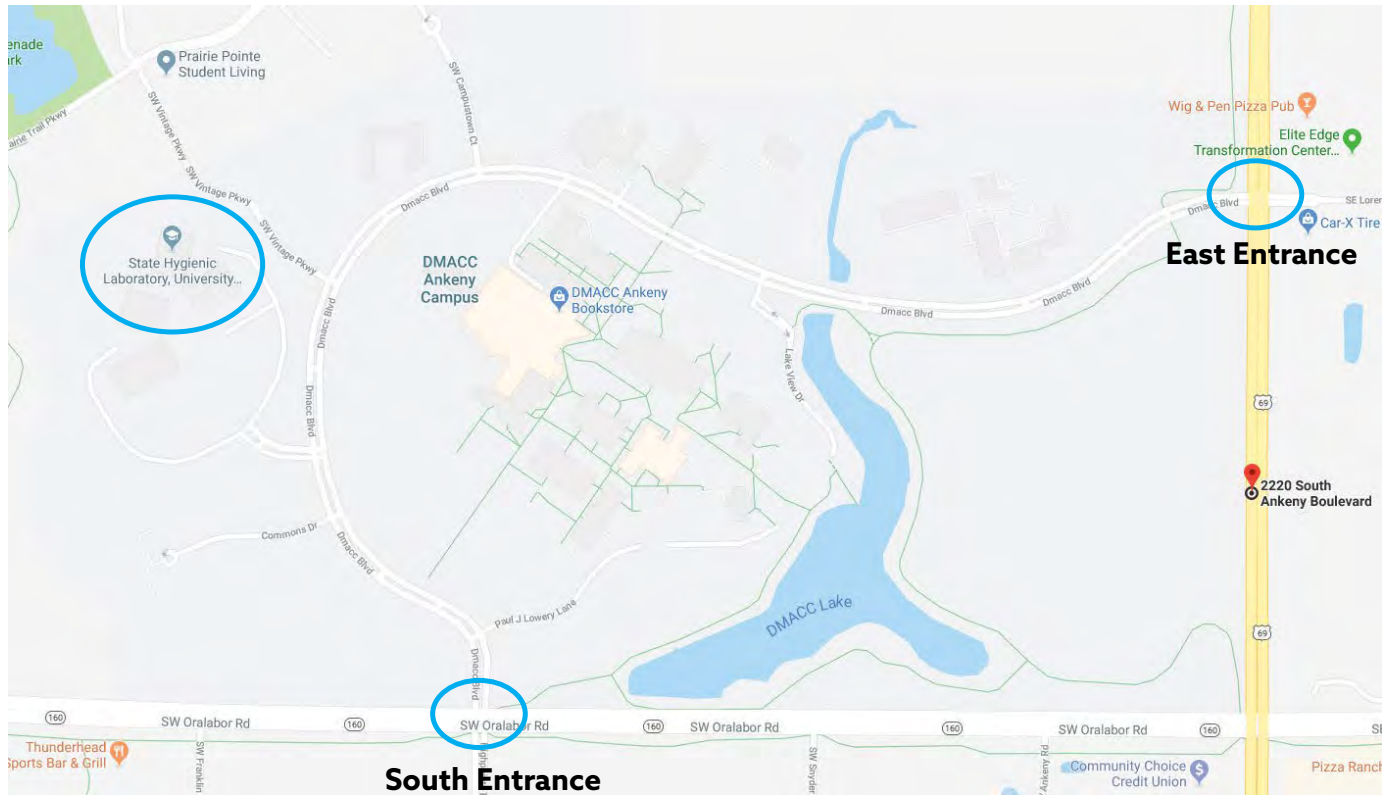
Matt Lasch is a construction manager for AES and oversees project development and implementation for upland and wetland restorations.

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Map to the State Hygienic Lab Facility



**Questions?
Contact Pat Sauer
(515) 210-6619
psauer@iowastormwater.org**

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