



Presents a one-day seminar on:

## **Stormwater Management Manual for Eastern Washington Update**

**Tuesday  
October 15, 2019**

**CenterPlace Regional Event Center  
Room 212  
2426 N. Discovery Place  
Spokane Valley, WA 99216  
(509) 720-5200**

The ASCE Inland Empire Section is pleased to present a one-day workshop on the recently updated Stormwater Management Manual for Eastern Washington (SWMMEW) and other stormwater-related topics.

The seminar will include presentations on:

- A guide to the 2019 SWMMEW:
  - Where the document retained the language from the 2004 version and where it has changed
  - How to distinguish between using the requirements for new development and redevelopment in the Core Elements and when to follow the UIC Rule
  - How to interpret the requirements in the eight Core Elements
  - How Source Controls relate to commercial and industrial sites
  - The 13 elements of the Construction SWPP
- Local Agency BMP implementation and lessons learned including:
  - Results of the Gonzaga bioretention soil media effectiveness study
  - Other local projects

Presenters for the workshop include:

- Doug Howie, Washington Department of Ecology
- Aimee S. Navickis-Brasch, PhD, PE, Osborn Consulting, Inc.
- Local agency representatives

This course qualifies for 6 PDH continuing education hours.

## Agenda

<u>Morning</u>			<i>Ecology</i>
8:00 to 8:30	Registration and Coffee		
8:30 to 12:00	<b>SWMMEW (Stormwater Manual) Training</b> - Doug Howie, Department of Ecology	2:00 to 2:15	<b>Break &amp; refreshments</b>
12:00 to 1:00	Lunch	2:15 to 3:00	<b>EWA Bioretention Soil Media Effectiveness Study Overview and Findings</b> - Aimee S. Navickis-Brasch, PhD, PE, Osborn Consulting, Inc.
<u>Afternoon</u>			
1:00 to 2:00	<b>Stormwater Manual Training with Q&amp;A and Discussion</b> - Doug Howie, Department of	3:00 to 4:00	<b>Local BMP Implementation</b> Discussion and lessons learned
		4:00	<b>Adjourn</b>

## Instructor Bios

**Doug Howie** has more than 35 years-experience in planning, design, and construction of stormwater projects. He is a stormwater engineer for the Department of Ecology working with permit managers to assist jurisdictions throughout the state in meeting their Permit requirements. He also manages the TAPE program where Ecology evaluates emerging technologies for use in Washington State. He worked on the SWMMEW and SWMMWW updates and presents classes on both manuals for permittees and other engineers.

Doug is a licensed PE in Washington and Idaho, a Life Member of ASCE, and an Adjunct Professor in Civil Engineering at St. Martin's University in Lacey, WA where he teaches statics, surveying, and stormwater design classes.

**Aimee S. Navickis-Brasch, PhD, PE** has over 25 years of experience in stormwater management with specialized expertise in planning, design, and research of low impact development practices. She is a senior stormwater engineer at Osborn Consulting, Inc. and an adjunct faculty member in the Civil Engineering department at Gonzaga University. Aimee holds a Bachelor of Science in Mechanical Engineering from Gonzaga University, a Master of Science in Civil Engineering from Washington State University, and a PhD in Civil Engineering from the University of Idaho. Her research focus is on applied stormwater research specifically evaluating the effectiveness of permit required stormwater management practices including structural, operation, and educational BMPs.

## **Agency Representatives**

Local stormwater agency representatives have been invited to provide their experiences with BMPs.

## **Registration**

**Cost: \$130.00** (includes seminar, lunch and refreshment breaks)

Full time students are entitled to a reduced enrollment fee of \$25.00.

A late fee of \$50 will be in effect after regular registration closes, subject to available space.

### ***Education Credit:***

0.6 CEUs (6 PDHs) for attendance of this course.

### ***Deadline Notice:***

Space is limited to 100. To ensure participation, enroll early.

Regular Registration will close on October 8<sup>th</sup>, 2019.

### ***Registration Process:***

Go to <https://SWMMEW-seminar.eventbrite.com> to register and provide payment.

### ***For more Information:***

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