2-Day Program

Day 1:
Envision Sustainability Workshop

*Earn 6.5 PDH Credits*

Day 2:
Full-day program that includes 2 concurrent sessions of 4 panel discussions including such topics as:

- *Climate Variability and Regional Implications to Puget Sound Recovery and the Built Environment*
- *Effective Environmental Restoration and Adaptive Management*
- *Site-Specific Case Studies*
- *Updates to the Federal Sustainability Guidelines*
- *Designing for Resiliency*
- *and more...*

*Earn up to 6 PDH Credits*
PARTICIPATING ORGANIZATIONS

STEVE WOOLERY, PE | SAME Seattle Post 1st Vice President | Principal Mechanical Engineer | BCE Engineering

LTC ANDREW L OLSON, PE | Deputy District Commander | USACE Seattle District

BRENDA BACHMAN | SAME Seattle Post Sustainability Committee | Unit Manager, Risk Evaluation | US EPA Region 10

OPENING SPEAKERS

**Time:** 8:45 – 9:15 am  **Location:** Lyceum

- **Steve Woolery, PE** | SAME Seattle Post 1st Vice President | Principal Mechanical Engineer | BCE Engineering
- **LTC Andrew L Olson, PE** | Deputy District Commander | USACE Seattle District
- **Brenda Bachman** | SAME Seattle Post Sustainability Committee | Unit Manager, Risk Evaluation | US EPA Region 10

Please register online at [http://sameseattlepost.eventbrite.com](http://sameseattlepost.eventbrite.com)
### LUNCHEON SPEAKER

**Time:** 1:00 – 1:45 pm  
**Location:** Lyceum

**Topic:** Reimagining Infrastructure in the Pacific Northwest

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Clark Brockman, AIA, LEED Fellow  
Principal at SERA Architects  
Research Fish Biologist/Facility Manager  
NOAA Mukilteo Research Station

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### PROGRAM SCHEDULE

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Room</th>
<th>Session 1</th>
<th>Session 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>15-Mar</td>
<td>9:00 am</td>
<td>250</td>
<td>Envision Sustainability Professional Accreditation Workshop</td>
<td></td>
</tr>
<tr>
<td>15-Mar</td>
<td>5:00 pm</td>
<td>145</td>
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<tr>
<td>16-Mar</td>
<td>8:00 am</td>
<td>250</td>
<td>Puget Sound Recovery Track</td>
<td>Built Environment Track</td>
</tr>
<tr>
<td>16-Mar</td>
<td>8:45 am</td>
<td></td>
<td>Program Kickoff</td>
<td>Beverage Station</td>
</tr>
<tr>
<td>16-Mar</td>
<td>9:30 am</td>
<td></td>
<td>Session 1 Effective Restoration Approach for Decision Making</td>
<td>Session 2 Keeping Up with Federal Sustainability Guidelines</td>
</tr>
<tr>
<td>16-Mar</td>
<td>11:00 am</td>
<td></td>
<td>Session 2 Site-Specific Case Studies of Restoration Effectiveness - Successes and Challenges</td>
<td>Session 2 Green Building Certification Programs Update</td>
</tr>
<tr>
<td>16-Mar</td>
<td>1:00 pm</td>
<td>145</td>
<td>Lunch and Guest Speaker</td>
<td></td>
</tr>
<tr>
<td>16-Mar</td>
<td>2:00 pm</td>
<td>145</td>
<td>Session 3 How to Manage Your Stormwater Effectively and Its Economic Benefits</td>
<td>Session 3 Tour of UW Molecular Engineering and Sciences Building</td>
</tr>
<tr>
<td>16-Mar</td>
<td>3:30 pm</td>
<td>145</td>
<td>Session 4 Measuring Restoration Effectiveness and Adaptive Management</td>
<td>Session 4 Puget Sound Sea Level Rise Predictions and Designing for Resiliency</td>
</tr>
<tr>
<td>16-Mar</td>
<td>5:00 pm</td>
<td>145</td>
<td>Program Adjourns</td>
<td></td>
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</tbody>
</table>
# Morning Training Sessions and Forum: Puget Sound Recovery Track

## Session 1: Effective Restoration Approach for Decision Making

**Time:** 9:30 – 10:50 am  
**Location:** Room 250

**Panel Members:**
- **Moderator:** Jill Brandenberger, Pacific Northwest National Laboratory
- **Scott Redman,** Science & Evaluation Program Director, Puget Sound Partnership
- **Heida Diefenderfer,** Senior Research Scientist, Marine Science Laboratory, Pacific Northwest National Laboratory
- **Paul Cereghino,** Restoration Ecologist, NOAA Restoration Center

**Synopsis:**
While a significant number of restoration actions are occurring in Puget Sound, existing indicators and monitoring may not provide information at scales that allow decision makers to determine whether long-term goals for ecosystem improvement are being met. This session will provide a short overview of the current state of Puget Sound indicators, discuss a framework for assessing how much restoration is sufficient to meet recovery goals, and describe approaches for identifying and prioritizing high value restoration projects.

## Session 2: Site-Specific Case Studies of Restoration Effectiveness: Successes and Challenges

**Time:** 11:00 am – 12:20 pm  
**Location:** Room 250

**Panel Members:**
- **Moderator:** Brenda Bachman, US EPA Region 10
- **Brian Anderson,** Senior Project Manager, The Boeing Company
- **Jeff Gaeckle,** Project Manager, Nearshore Habitat Program, Washington State Department of Natural Resources

**Synopsis:**
This session will address how the cleanup of industrial sites along waterways and the Puget Sound shoreline have worked with the restoration community to collectively support Puget Sound recovery. Restoration effectiveness is a function of the built environment and understanding measures of success and challenges faced will improve input for all decision making. In particular, eelgrass plays a key role in the nearshore ecosystem, is important habitat in Puget Sound that responds quickly to changes in the environment, and is used as an indicator of estuary health.

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# Afternoon Training Sessions and Forum:Puget Sound Recovery Track

## Session 3: How to Manage Your Stormwater Effectively and Its Economic Benefits

**Time:** 2:00 – 3:20 pm  
**Location:** Room 250

**Speakers:**
- **Moderator:** Wendy LS Oresik, Normandeau Associates, Inc.
- **Derek Day,** Water Quality Program, Washington State Department of Ecology
- **Deanna Seaman,** Senior Manager, Environmental Water Quality, Northwest Seaport Alliance
- **Guillaume Mauger,** Principal Investigator, University of Washington Climate Impacts Group

**Synopsis:**
Stormwater runoff from impervious surfaces in urbanized areas is a significant contributor to declining water quality and loss of aquatic habitat in urban areas. Many municipalities in the Puget Sound area require low-impact or green infrastructure, and Port facilities have been installing innovative stormwater runoff collection and treatment systems at their facilities to mitigate impacts. During this special session, effective low-impact technologies and treatment systems that illustrate water quality improvements and overall environmental performance resulting from their application, including the climate resiliency of these features.

## Session 4: Measuring Restoration Effectiveness and Adaptive Management

**Time:** 3:30 – 4:40 pm  
**Location:** Room 250

**Panel Members:**
- **Moderator:** Brenda Bachman, US EPA Region 10
- **Leska Fore,** Monitoring Program Performance Analyst, Ecosystem Assessment, Puget Sound Partnership
- **Ron Thom,** Staff Scientist, Pacific Northwest National Laboratory
- **Letitia (Tish) Conway-Cranos,** PhD, Nearshore Science Manager, Estuary and Salmon Restoration and Habitat Programs, Washington Department of Fish and Wildlife

**Synopsis:**
Adaptive management is a key to the long-term restoration of the Puget Sound region. A key part of adaptive management is the making of decisions regarding what to measure, which management tool to employ, and how to integrate a variety of information on the trajectory of the various measures of the state of the region. In particular, designing projects and long-term monitoring that considers site-specific cumulative net ecosystem benefits and the influence of climate change and the integration of ecological measures with human well-being will be discussed.
# Session 1: Keeping Up with Federal Sustainability Guidelines

**Time:** 9:30 – 10:50 am  
**Location:** Room 145

### Speakers:
- **Moderator:** Kim Paulson, NAVFAC NW
- **Julie Kephart-Jones,** NAVFAC Sustainable Development Criteria Manager, Tri-Service Sustainable Working Group Representative (Navy)
- **Kelli Polzin,** Military Missions, Tri-Service Sustainable Working Group Representative (Army), USACE HQ
- **Paula Shaw,** AFCEC, Program Manager, Built Infrastructure, Tri-Service Sustainable Working Group Representative (Air Force)

### Synopsis:
Compliance with UFC 1-200-02 High Performance and Sustainable Buildings is the core of DoD’s compliance with numerous federal policies both via Executive Order and enacted law. The Guiding Principles, which form the core of federal sustainability policy, were updated in February 2016. UFC 1-200-02 has undergone a significant update to make it easier to comply with, but also to clarify many requirements that have undergone further adaptation. This session will also touch on individual federal agency requirements in addition to the UFC, and share insight into how federal sustainability policy is enacted.

# Session 2: Green Building Certification Programs Update

**Time:** 11:00 – 12:20 pm  
**Location:** Room 145

### Panel Members:
- **Moderator:** Kim Paulson, NAVFAC NW
- **Mark Lesher,** Senior Account Manager and **Micah Thomas,** Director of Technology & Compliance Solutions, Green Building Initiative (GBI)
- **Lisa Stanley,** LEED AP ID+C, CEP, CPM, Technical Solutions, US Green Building Council (USGBC)
- **Kelli Polzin,** Sustainability Program Manager, Military Missions, Tri-Service Sustainable Working Group Representative, USACE HQ
- **Brad Lentz,** Project Manager, Notkin Mechanical Engineers

### Synopsis:
EISA 2007 established that federal projects are to be certified by an established “green” building certification program, aligned to the federal sustainability criteria. DoD Sustainable Building Policy (November 10, 2013) requires third-party green building certifications, using systems approved for federal use. The speakers in this panel will discuss current Guiding Principle compliance programs at GBI and USGBC and also how these compliance programs are being used on real projects.

# Afternoon Training Sessions and Forum: Built Environment Track

## Session 3: Tour of UW Molecular Engineering & Sciences Building

**Time:** 2:00 – 3:20 pm  
**Location:** Room 145  
**Tour:** Scheduled, maximum of 20 people per group

### Tour Organizer:
- **Dana Hiatt,** USCG

### Synopsis:
The Molecular Engineering & Sciences Building was carefully designed and engineered to facilitate advanced molecular-level engineering research. The building was specially sited to minimize vibration and electromagnetic interference to permit usage of sensitive instrumentation. The 90,300 square-foot-state-of-the-art facility was completed during the summer of 2012 and is LEED Gold certified.

## Session 4: Puget Sound Sea Level Rise Predictions and Design for Resiliency

**Time:** 3:30 pm – 4:00 pm  
**Location:** Room 145

### Speakers:
- **Moderator:** Evan Sheesley, BergerABAM
- **Jeff Arnold,** USACE Institute of Water Resources
- **Pat Iolavera,** Navy Region Northwest Community Public Liaison Officer and Program Manager for Readiness Sustainment and Compatibility Program

### Synopsis:
This session will present predictions in Puget Sound for sea level rise and the policy of resiliency toward climate change on the water resources. Attendees will be updated on DoD efforts to include this changing criteria into construction and operation activities, including information from NAVFAC’s NIBS/AECOM contract to update DoD criteria and USACE studies and policies.
The world is demanding more sustainable infrastructure solutions that are cost effective, resilient, good for the economy, and support communities. This is an engaging, full-day workshop, where participants will learn how to use the Envision rating system and guidance manual from the Institute for Sustainable Infrastructure (ISI). Envision is an industry-recognized standard and celebrated tool, developed by the ISI to help inform owners, operators, planners, and engineers on sustainable decisions regarding infrastructure. Participation in the workshop will qualify you to take the Envision Sustainability Professional (ENV SP) exam and join a community of over 5,000 credentialed sustainability professionals. Besides being eligible to take the ENV SP Exam, you will learn how to use Envision on projects, describe the components of Envision, determine the level of achievements using the Envision credits, describe the verification process, and navigate the online tools.

Instructors: Amanda Schweickert, PE, ENV SP, ISI-Approved Trainer  
Evan Sheesley, PE, MASCE, ENV SP, ISI Approved Trainer

Instructor Biographies

Ms. Amanda Schweickert and Mr. Evan Sheesley have worked together for the past 4 years promoting and teaching the civil infrastructure community about Envision. They have been involved with the ISI as third-party verifiers, ISI trainers, and currently work on various committees to continually improve Envision. They have verified four Envision projects for the ISI. Amanda and Evan have facilitated multiple ENV SP trainings in New York, New Jersey, Washington, California, and Louisiana to prepare participants for the Envision Sustainability Professional exam; together, they have trained over 80 people. Amanda and Evan currently work as project engineers at BergerABAM. Amanda holds a BS in Industrial Engineering and an MS in Civil Engineering, specializing in transit structures and bridges for the past 10 years. Evan holds a BS in Civil Engineering and has worked on a wide range of seaport infrastructure for the past 9 years.

SPONSORS
University of Washington Department of Military Science

- LTC T evina Flood, Professor and Chair
- Jennifer L Cumpston, Program Coordinator

ACKNOWLEDGMENTS
Sustainability Subcommittee Members

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Organization</th>
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<tbody>
<tr>
<td>Wendy LS Oresik, PE</td>
<td>(Chair) Federal Program Director</td>
<td>Normandean Associates, Inc.</td>
</tr>
<tr>
<td>Brenda Bachman</td>
<td>Unit Manager, Risk Evaluation, Office of Environmental Review and Assessment</td>
<td>US EPA Region 10</td>
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<tr>
<td>Jill M Brandenberger</td>
<td>Manager, Sustainability for National Security</td>
<td>Pacific Northwest National Laboratory</td>
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<tr>
<td>Jeanette Fiess, PE, LEED BD+C</td>
<td>Sustainability/Energy Program</td>
<td>USACE Northwestern Division</td>
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<tr>
<td>Nathan Gregory, RA, LEED AP BD+C</td>
<td>Assistant Director of Facilities Planning and Real Estate</td>
<td>Seattle University (formerly with the USACE Seattle District)</td>
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<tr>
<td>Dana Hiatte, E LCDR</td>
<td>LT Commander</td>
<td>US Coast Guard</td>
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<tr>
<td>Kimberly (Kim) Paulson, PE, LEED BD+C, GGP</td>
<td>Mechanical Engineering Branch, Manager, Mechanical Engineering Technical Discipline Coordinator, Sustainability Lead</td>
<td>NAVFAC NW</td>
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<tr>
<td>Evan Sheesley, PE, ENV SP</td>
<td>Sustainability Specialist, Project Engineer</td>
<td>BergerABAM</td>
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<tr>
<td>Stephanie Jones Stebbins</td>
<td>Director, Maritime Environmental and Planning</td>
<td>Port of Seattle</td>
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</tbody>
</table>

Subcommittee members also acting as Session Moderators are shown in red italics
The HUB is located on upper campus. Allen Library is to the west, the Communications Building is to the north, and Stevens Way NE runs along the east side of the HUB. Hall Health and the UW Club are located across Stevens Way to the east.

Directions to Husky Union Building (HUB)
1001 Stevens Way NE  Seattle, WA 98198

From I-5 North
Head southeast on I-5 S
Take exit 169 toward NE 45th
Turn left onto NE 45th St
Turn right onto Memorial Way NE
Turn left onto NE Stevens Way
Destination will be on the right

From I-5 South
Head northeast on I-5 N
Take exit 169 for NE 45th St.
Slight left onto 7th Ave NE
Turn right onto NE 45th St
Turn right onto Memorial Way NE
Turn left onto NE Stevens Way
Destination will be on the right

From 520 Bridge
Turn left to merge onto WA-520 W
Take the Montlake Blvd exit
Merge onto Montlake Blvd E
Slight left onto 25th Ave NE
Turn left onto Pend Oreille Road NE
Turn left onto NE Stevens Way
Destination will be on the right

PARKING NEAR THE HUB

Padelford Parking Garage is the nearest parking lot to the HUB. Disability parking is available in N-22, the parking lot near the HUB’s north entrance. Visitors must make parking arrangements at any one of the gatehouses upon entering campus. Parking is not allowed on the brick pavers or pathways that surround the HUB along the north, south or west sides.

Please consider carpooling for a greener environment.
Society of American Engineers Seattle Post

Sustainability Training Forum for Puget Sound Recovery and the Built Environment

www.seattlesame.org

For questions about the post please contact:

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  USACE Seattle District
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  john.g.buck@usace.army.mil

- **Mailing Address:**
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  Seattle, WA 98194