

**SAVE THE DATE**  
**October 16, 2024**  
**8:00am–5:00pm**

# Are we ready for the fourth industrial revolution?

**A forum to discuss new AI technologies, occupational reproductive health and the future of work**

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**The Northwest Occupational Health Conference 2024,  
sponsored by the Pacific Northwest Section-AIHA**

## **COURSE DESCRIPTION**

This short course will cover two topics:

In the morning, we will explore new tools, technologies, and approaches to mitigating workplace risks related to artificial intelligence (AI). The use of AI is expanding and impacting our lives on many levels. It is entering into the workplace to increase productivity, improve decision-making, conduct environmental monitoring and surveillance, and decrease operational costs. For example, applications exist that use sensors to detect hazardous situations, wearable smart devices to track locations, facial recognition technology to verify identity, and neural networks—the backbone of machine and deep-learning algorithms—to make intelligent decisions.

In the afternoon, we will convene experts to provide an update on occupational reproductive health—covering exposure assessment models, recent state and federal laws that require employee workplace accommodations, and resources including a new toolkit for employers and employees. Participants will increase their awareness on how to recognize, assess, and reduce/eliminate workplace exposures to occupational reproductive hazards. The afternoon workshop will focus on using AI tools, providing guidance, and assessing several reproductive health case scenarios.

### **Registration**

<https://www.pnsaiha.org/>

This short course is supported by the Northwest Center for Occupational Health and Safety

### **Accreditation**

7.5 contact hours/0.75 CEUs

Board for Global EHS Credentialing Certification Maintenance (CM) can be obtained for this activity.

Go to [www.gobgc.org](http://www.gobgc.org)

### **Location**

Skamania Lodge  
1131 SW Skamania Lodge Way  
Stevenson, WA 98648  
844-432-4748

### **Visit our Website**

web: <https://oshce.uw.edu>

email: [ce@uw.edu](mailto:ce@uw.edu)

Phone: 800-326-7568

## AGENDA

### Welcome and introduction

Nancy Simcox, MS, *Associate Teaching Professor, University of Washington Department of Environmental and Occupational Health Sciences (UW DEOHS)*

### UW DEOHS Breyse Lecture

Maggie Leland, *Policy Director, Washington Department of Labor & Industries Government Affairs & Policy Division*

### New technologies, algorithms and the use of AI in the workplace

Jay A. Vietas, PhD, CIH, CSP, *Chief, Emerging Technologies Branch, National Institute for Occupational Safety & Health*

### New challenges in an AI world

Chris Hammond, *Director of Business Analytics, Sodexo*

### Worker rights, intentional design and the communication of work

Moni Mungin, *Faculty, Construction Management, Edmonds College*

### Workshop: Best practices to use and integrate AI in the workplace

Jay Vietas, PhD and Chris Hammond

### Future of work: Leadership and resiliency for the changes to come

Molly Breyse Cox, PhD, *UW Facilities Business, Innovation & Technology and Instructor, Northwest Center for Health and Safety*

### Occupational exposome approaches: What does it mean for workers?

Elaine Faustman, PhD, *UW DEOHS*

### Reproductive hazards and health effects in the workplace: New Toolkit

Debbie Cherry, MD, MS, *UW DEOHS*

### Workshop: Practice using AI tools to explore reproductive health hazards

Katy Nelson, MS, ASHM, *Health and Safety Specialist, Insight Global*, and Chris Hammond

### Reproductive health: What does a new heat rule have to do with it? Prevention!

Bradley Farrar, *Washington State Department of Labor & Industries DOSH Multicultural Outreach and Web Services Program*

### ***A special thank you to the following people for their contributions in planning this course:***

Josh Hopp, CIH, CSP, *Sr. EHS Engineer, Cepheid*

Erin Walker, MS, *Consultant*

Stephanie Carter, PhD, CIH, *Industrial Hygienist, iWorkwise and UW OSHCE Instructor*

Katy Nelson, MS, ASHM, *Health and Safety Specialist, Insight Global*

Kat Gregersen, MPH, CIH, *Consultant*

Nancy Simcox, MS, *Associate Teaching Professor, UW DEOHS*

To request disability accommodation, contact the Disability Services Office at least 10 days in advance at: 206-543-6450 (voice); 206-543-6452 (TDY); 206-685-7264 (FAX); or dso@uw.edu (e-mail)