

ISPE 2026 Annual Meeting
September 24 & 25, 2026
Riverside Hotel ~ 2900 Chinden Boulevard ~ Boise, ID 83709

Wednesday, September 23

4:00 – 5:00 PM **Board Meeting**
Quiet Bar

Thursday, September 24

8:00 – 8:50 AM **Breakfast/ISPE Membership Meeting**
Delamar Room

9:00 – 9:50 AM **Future Vision of Engineering Education (1 PDH)**
Liberty Room **Amy S. Fleischer PhD**
Dean, College of Engineering, Boise State University

10:00 – 10:50 AM **City of Meridian – Code Revisions and Economic Happenings (1 PDH)**
Liberty Room **Caleb Hood**
Deputy Director, City of Meridian
Curtis Calder
Economic Development Administrator, City of Meridian

11:00 – 11:50 AM **Lessons Learned While Leading Through Crisis (1 PDH)**
Liberty Room **Leanne Panduren, PE, F.NSPE**
NSPE President-Elect

A discussion on three very different emergencies to show how engineering leaders can steady an organization when the ground shifts. This session walks through a practical framework for crisis evaluation and response, covering situation analysis, response teams, communication plans, outside expertise, and documentation.

12:00 – 12:50 PM **Lunch**
Cinnabar Room

1:00 – 1:50 PM **Forward Together - NSPE and ISPE (1 PDH)**
Liberty Room **Leanne Panduren, PE, F.NSPE**
NSPE President-Elect

An update on how NSPE is advancing the profession under one vision, one mission, and one organization. This session will provide an update on advocacy efforts and an overview of resources that support engineers at every career stage. Attendees will learn how national and state societies work together, and how to get involved.

2:00 – 2:50 PM **Rio Coca Erosion Disaster, Ecuador (1 PDH)**
Liberty Room **Molly Wood, PE**
David Evans and Associates, Inc

The Rio Coca disaster in Ecuador began in 2020 when the collapse of the San Rafael waterfall – the river’s natural grade control feature – triggered rapid upstream erosion. Since then, the Rio Coca valley has been eroding catastrophically at a magnitude unprecedented in modern history, causing landslides and approximately \$3B in infrastructure damage to oil pipelines, highways, bridges, and communities. The erosion currently threatens to undermine a dam and hydropower facility which supplies about 30% of Ecuador’s electricity. Molly’s presentation examines the progression of the Rio Coca erosion disaster and the engineering strategies implemented to mitigate erosion and protect critical infrastructure.

3:00 – 3:50 PM

Liberty Room

**Building an Ecosystem for Developing the Next-Generation
Microelectronics Workforce (1 PDH)**

Dr. Kurtis D. Cantley
Boise State University

4:00 – 4:50 PM

Liberty Room

**Public Works and Legacy Infrastructure in the Former Soviet Union.
An Idahoan's Firsthand Account (1 PDH)**

Don Carroll
Business Development Manager, Idaho Commerce

Don Carroll, an Eastern Idaho native, served as a Foreign Service Officer with the U.S. Department of State from 2004 to 2025. His assignments took him throughout the Former Soviet Union and neighboring countries. These included Tbilisi, Georgia; Helsinki, Finland; Afghanistan; Chişinău, Moldova; Bucharest, Romania; and Yerevan, Armenia. During his time abroad, Don was able to see firsthand the legacy of communism in these countries. He is delighted to share his insight and key takeaways and take questions regarding his experience in the Foreign Service. He will present several engineering projects and features to showcase some of the countries he visited, lived in, and often came to love. Don joined Idaho Commerce as the Business Development Manager in December 2026. He notes that engineering is equally critical to economic and community development in every location where he has lived.

Friday, September 25

7:30 – 8:00 AM

Liberty Room

Breakfast

8:00 – 8:50 AM

Liberty Room

**What's happening at DOPL – an Update on Activities of the Board of Professional
Engineers and Professional Land Surveyors (1 PDH)**

Jessica Spoja, MPA
Executive Officer, Idaho Division of Occupational Licenses

9:00 – 9:50 AM

Liberty Room

**Microbial community response to high-concentration dissolved oxygen infusion in an
oxidation ditch: ATP-based assessment of liquid- and solid-phase treatment outcomes
(1 PDH)**

Dr. Sondra Miller
Boise State University

Dissolved oxygen (DO) concentration governs both liquid- and solid-phase treatment dynamics in biological wastewater treatment, yet conventional DO measurement reflects oxygen availability rather than the microbial response it is intended to support. This study evaluates the microbial community response to a high-concentration DO infusion system retrofitted into the oxidation ditch of the Greenleaf Wastewater Treatment Plant (WWTP) in Idaho, using adenosine triphosphate (ATP) as a direct measure of microbial bioenergetics and linking that response to liquid- and solid-phase treatment outcomes. Cellular, dissolved, and total ATP (cATP, dATP, tATP), the Biomass Stress Index (BSI), and the Active Biomass Ratio (ABR) were monitored at the return activated sludge (RAS) return point and oxidation ditch effluent from November 2023 through March 2025. Oxygen was delivered at an essentially constant rate throughout the study. cATP and tATP, and ABR at the RAS return point approximately doubled (Mann-Whitney $p < 0.01$) following relocation of the RAS return point to the eastern section of the oxidation ditch on August 21, 2024. This indicates that placement of oxygen delivery, rather than its quantity, drove a substantially more active biomass. Neither biosolids generation nor measured suspended-solids to volatile-solids (VSS/TSS) fraction changed significantly due to RAS return relocation over the same period. This indicates that increase in microbial activity was decoupled from the quantity and composition of solids. The results collectively show that ATP-based monitoring detected a shift in microbial condition that bulk solids and conventional effluent measurements did not capture, supporting ATP as a sensitive, biologically informed complement to conventional process monitoring.

10:00 – 10:50 AM

Liberty Room

SH-16: The Final Push — Building Idaho's Next Vital North-South Connection (1 PDH)

Matt Kreizenbeck

Idaho Transportation Department

Jeff Ryan, PE

Idaho Transportation Department

The project involves constructing nearly five miles of new State Highway 16 between US 20/26 and I-84, including five interchanges. Construction began in 2022 and is scheduled for completion in 2027. The presentation highlights key engineering, construction, coordination, and stakeholder outreach efforts. Once complete, SH-16 will improve connectivity and capacity while supporting continued growth in the Treasure Valley.

11:00 – 11:50 PM

Liberty Room

TBA (1 PDH)

Max Taylor, PhD

Assistant Professor, Department of Computer Science

College of Engineering, Boise State University

12:00 – 12:50 PM

Cinnabar Room

Lunch

1:00 – 1:50 PM

Liberty Room

NSPE Board of Ethical Review: Spring 2026 Case Review (1 PDH)

Dr. Sondra Miller

Boise State University

The NSPE Board of Ethical Review (BER) publishes opinions involving a variety of ethical topics related to the practice of engineering every year. The BER has released four new case studies this year that address emerging ethical challenges faced by professional engineers in practice. The cases cover a diverse range of topics, including artificial intelligence, community outreach, and sustainability. Each case provides a nuanced analysis of the ethical dilemmas involved, along with recommendations grounded in the NSPE Code of Ethics. These resources are particularly valuable for professional engineers, students, and educators who wish to stay ahead of evolving ethical issues.