

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 **TBA (1 PDH)**
Liberty Room **Amy S. Fleischer PhD**
Dean, College of Engineering, Boise State University

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

11:00 – 11:50 AM **TBA (1 PDH)**
Liberty Room

12:00 – 1:50 PM **Lunch/Speaker – NSPE Update (1 PDH)**
Cinnabar Room **Leanne Panduren, PE, F.NSPE**

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 **TBA (1 PDH)**
Liberty Room **Don Carroll**
Business Development Manager, Idaho Commerce

4:00 – 4:50 PM **TBA (1 PDH)**
Liberty Room

5:00 – 6:00 PM **No Host Social Hour**
Quiet Bar

Friday, September 25

7:30 – 8:00 AM

Breakfast

Liberty Room

8:00 – 8:50 AM

DOPL (1 PDH)

Liberty Room

Jessica Spoja, MPA

Executive Officer, Idaho Division of Occupational Licenses

9:00 – 9:50 AM

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)

Liberty Room

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

TBA (1 PDH)

Liberty Room

11:00 – 11:50 PM

TBA (1 PDH)

Liberty Room

12:00 – 12:50 PM

Lunch/Speaker TBA (.5 PDH)

Cinnabar Room

1:00 – 1:50 PM

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

Liberty Room

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.