



Presents a seminar on:

## **Land Movement and Mitigation**

**Wednesday  
April 27, 2022**

**an In-Person Seminar at the**

**Northwest Museum of Arts and Culture  
(The MAC)  
2316 W 1<sup>st</sup> Ave, Spokane**

The ASCE Inland Empire Section is pleased to present a one-day workshop on Land Movement and How to Mitigate it. A portion of the seminar will include a field visit to Clark & Elm in Spokane's Peaceful Valley neighborhood.

The seminar will include presentations on:

- Clark & Elm land slide and Mitigation
- Porcupine Bay Highway tie-back
- Civil & Structural Landslide Challenges
- City of Spokane CSO Tank Retaining Walls
- The engineering behind temporary shoring

Presenters for the workshop include:

- Erik Arnson, PE, LG, GeoEngineers
- Teresa Dugger, PE, GeoEngineers
- John Finnegan, PE, Budinger & Associates
- Rick Becker, Lincoln County
- Andy Abrams, PE, GeoProfessional Innovation
- Duane Studer, PE, City of Spokane
- Paul French, PE, SE, United Rentals, Trench Safety Engineering

This course qualifies for 6 PDH continuing education hours.

## **Agenda**

<b>8:45 to 8:50</b>	<b>Welcome and Introduction</b> <i>- Alan Gay, Coffman Engineers</i>	<b>12:30 to 1:30</b>	<b>Lunch</b>
<b>8:50 to 9:40</b>	<b>Porcupine Bay Tie-Back Project</b> <i>John Finnegan, Budinger &amp; Associates</i>	<b>1:30 to 2:20</b>	<b>Clark &amp; Elm Landslide and Mitigation - Background</b> <i>Erik Arnson, Teresa Dugger, GeoEngineers, Inc.</i>
<b>9:50 to 10:40</b>	<b>Civil and Structural Landslide Challenges</b> <i>Andy Abrams, GeoProfessional Innovation</i>	<b>2:20 to 2:50</b>	<b>Break &amp; Travel to Clark &amp; Elm</b>
<b>10:40 to 10:50</b>	<b>Break</b>	<b>2:50 to 4:00</b>	<b>Clark &amp; Elm Landslide and Mitigation – On site</b> <i>Erik Arnson, Teresa Dugger, GeoEngineers, Inc.</i>
<b>10:50 to 11:40</b>	<b>CSO Tank Retaining Wall Challenges</b> <i>Duane Studer, City of Spokane with Teresa Dugger and Dave Lauder, GeoEngineers, Inc. and John Finnegan, Budinger &amp; Associates</i>		
<b>11:40 to 12:30</b>	<b>The Engineering Behind Temporary Shoring</b> <i>Paul French, United Rentals</i>		

## **Instructor Bios**

**John Finnegan, P.E.** is CEO and a principal at Budinger & Associates. John's extensive geotechnical background includes landslide evaluation, hydrogeology, construction testing and inspection, and many other aspects of the field.

**Andy Abrams, P.E.**, is Engineering Services Manager at GeoProfessional Innovation Corporation. Andy's extensive expertise includes many aspects of geotechnical engineering including finite element analysis and construction testing and inspection.

**Duane Studer, P.E.**, is a Principal Engineer at the City of Spokane. In his career and work for the City he has focused on stormwater management, including planning and leading the design and construction engineering of the City's combined sewer overflow program.

**Teresa Dugger, P.E.**, is an Associate Geotechnical Engineer at GeoEngineers in Spokane. At GeoEngineers, Teresa oversees the development of geotechnical engineering evaluations—from proposal to final report—and is a main client/owner contact for her projects. Teresa's technical experience is broad, including experience managing large geotechnical evaluations for regional energy providers, natural resource work transportation authorities, design-build projects, and construction monitoring.

**Dave Lauder, P.E.**, is a Senior Geotechnical Engineer at GeoEngineers in Spokane. After earning B.S. and M.S. degrees from the University of Oklahoma, he began his career as an engineer for the Oklahoma Department of Transportation. After eight years in Oklahoma, the Montana native was ready to return to the Northwest. Dave moved to Spokane and joined GeoEngineers, where he splits his time between geotechnical and environmental work. He contributes geotechnical expertise to a variety of private development projects and municipal projects such as roads and bridges. In the environmental arena, he manages environmental site assessment and remediation projects. Dave says he appreciates his Spokane coworkers, the collaborative culture and variety of clients and projects GeoEngineers offers. Dave enjoys spending his leisure time with his family or engaging in his favorite recreational pursuits, golf and fly fishing getaways to Northern Idaho and Western Montana.

**Erik Arnson, P.E., L.G.**, is a Senior Geotechnical Engineer at GeoEngineers in Spokane. Erik assists the senior engineers in the Spokane office with field work, research, analysis and report writing for geotechnical projects. Erik is pleased by the opportunities his profession offers. "I like being able to work on challenging problems that are never exactly the same. I have always enjoyed math—I even taught it for a while—and like using it to solve problems. Most of all, I like it when I can help people and make a difference."

**Paul French, P.E., S.E.** is a manager for the United Rentals Engineering Department, overseeing the work of all Senior Civil and Structural Engineers in the United States and Canada. He is also the Lead Engineer for United Rentals projects west of the Mississippi and into Canada, designing temporary shoring to meet the needs of customers using United Rentals equipment.

Prior to joining United Rentals, Paul was a Project Manager and Estimator for regional contractors throughout the Puget Sound, Alaska, and Inland Northwest. While working in the field, he engineered and managed several deep foundations and general construction projects across the transportation, defense, and energy sectors.

Paul is a graduate of South Dakota State University with a bachelor's degree in Civil Engineering. He is licensed as a Civil and Structural Engineer in the United States, and a Professional Engineer in Canada. He lives with his wife and their German Shorthair Pointer in Spokane, Washington

## **Registration**

**Cost: \$120.00** (includes lunch!)

Full time students are entitled to a reduced enrollment fee of \$50.00.

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

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

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

To ensure participation, enroll early.

Regular Registration will close on April 15<sup>th</sup>, 2022.

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

Go to <https://ascetechnicalseminar.eventbrite.com> to register and provide payment

### ***COVID-19 Requirements:***

The ASCE Inland Empire Section adheres to WA State's L&I Requirements and Guidance for Preventing COVID-19. For more information please see <https://www.lni.wa.gov/forms-publications/F414-164-000.pdf>

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

Contact: Alan Gay  
(509) 309-8542 (telephone)  
[alan.gay@coffman.com](mailto:alan.gay@coffman.com)