Presents a one day seminar on:

# Another Dam Safety Seminar

**Thursday**
**October 18, 2018**

**Mukogawa Fort Wright Institute**
**Commons Building**
**4000 W. Randolph Road**
**Spokane, WA**
**(509) 328-2971**

The ASCE Inland Empire Section is pleased to present a one-day workshop on Dam Safety and other Dam-related topics.

The seminar will include presentations on:

- Dam Safety and Emergency Action Planning
- Long Lake Hydroelectric Development – TDG Modifications
- Wildfire Hydrology
- The Rattlesnake Creek Dam Breach
- The Oroville Dam Project
- The Newman Lake Dike

Presenters for the workshop include:

- Meghan Lunney, Avista Utilities
- Paul Lenneman, PE, Avista Utilities
- Mac Mikkelsen, Avista Utilities
- Lynelle Knehans, PE, Natural Resource Conservation Service
- Hallie Ladd, Washington State Department of Ecology
- Lynn Schmidt, PE, Washington State Department of Ecology
- Kim de Rubertis, PE, City of Spokane
- Marty Walther, PE, Washington State Department of Ecology
- Alan Gay, PE, Stantec

This course qualifies for 6 PDH continuing education hours.

## ***Agenda***

| ***Morning*** | |
|---|---|
| **8:15 to 8:45** | **Registration and Coffee** |
| **8:45 to 8:50** | **Welcome and Introduction**<br>*- Alan Gay, Stantec* |
| **8:50 to 9:40** | **Dam Safety 101**<br>*- Kim de Rubertis, Consulting Engineer* |
| **9:40 to 10:30** | **Emergency Action Planning and Dam Safety**<br>*- Mac Mikkelson, Avista Utilities* |
| **10:30 to 10:50** | **Break & refreshments** |
| **10:50 to 11:40** | **Long Lake TDG Project**<br>*- Meghan Lunney and Paul Lennemann, Avista Utilities* |
| **11:40 to 12:40** | **Lunch** |

| **Afternoon** | |
|---|---|
| **12:40 to 1:30** | **Wildfire Hydrology and the Eightmile Dam**<br>*- Marty Walther, DOE* |
| **1:30 to 2:20** | **Rattlesnake Creek Dam Breach**<br>*- Hallie Ladd and Lynn Schmidt, DOE* |
| **2:20 to 2:40** | ***Break & refreshments*** |
| **2:40 to 3:30** | **Oroville Dam**<br>*- Alan Gay, Stantec* |
| **3:30 to 4:00** | **Newman Lake Dike**<br>*- Lynelle Knehans, NRCS* |
| **4:00** | **Adjourn** |

## ***Instructor Bios***

**Kim de Rubertis** is in his 58th year of engineering practice. He was an assembly line welder for the 1958 Chevrolet, a checker in the National Bohemian Brewery, a surveyor for the Baltimore & Ohio Railroad and served in the 1st Engineer Battalion, 1st Infantry Division. He achieved distinction by mis-using dye while attempting to trace seepage into an excavation at a pumped storage project and turned the Allegheny River green. He was then counseled not to use dye without adult supervision.

**Mac Mikkelson** has been the Hydro Safety, Security, & Emergency Action Plan Specialist at Avista for the past 8 years. He is a member of the Association of State Dam Safety Officials and is a Fusion Liaison Officer through the Washington Fusion Center and Department of Homeland Security. Prior to his work at Avista, he worked as a Park Ranger for Washington State Parks and as a District Security Officer for the US Marshal Service. He is a School Board Director for the Nine Mile Falls School District; a member of the Washington State School Board Director's Association and also serves as the district's representative for the Washington Interscholastic Athletic Association. Mac is a board director for the Northwest Natural Resources Institute representing the water/hydro section with a focus of educating youth about hydropower and safety around dams. Mac has a Bachelor's degree from Washington State University and also has a graduation certificate through the Parks Law Enforcement Academy. He is also a Boating Safety Instructor and certified Marine Law Enforcement Safety Officer.

**Meghan Lunney** works as an Aquatic Resource Specialist in Avista's Environmental Department and is responsible for implementing water quality, erosion control, and sediment management mitigation measures for Avista's Spokane River Hydroelectric Developments. She began her career at Avista in 2008 and has worked in the Environmental Department for the past ten years. Prior to Avista, Meghan worked as a project geologist for an environmental engineering firm in Hawaii and Washington with a focus on soil and groundwater investigations. Meghan grew up in New York and earned her bachelor's degree in geology at the State University of New York at Geneseo and her master's degree in geology at Portland State University.

**Paul Lennemenn** is an Engineer at Avista Utilities. While working for Avista for the past three years, Paul has provided civil engineering support to a variety of projects for the Hydro-electric facilities on the Spokane and Clark Fork rivers. Prior to joining Avista, he managed Spokane County's construction office. His career has provided the opportunity to be responsible for the completion of a variety of projects including roads, bridges, railways, sewers, buildings, hydraulic structures, and now hydroelectric projects.

**Marty Walther** is a hydrology/hydraulics engineer with the Washington State Department of Ecology, Dam Safety Office. Marty has a B.S. degree in Agricultural Engineering from the University of Maryland, and an M.S. degree in Civil Engineering from the University of Alaska-Fairbanks. Marty is a registered Professional Engineer in Washington and Alaska, and has more than 30 years of professional experience, including 20 years in Dam Safety.

**Hallie Ladd** is a Wetlands/Shorelines Specialist with the WA State Department of Ecology. Hallie's role at Ecology is to provide permitting and technical assistance to the local jurisdictions and citizens of Eastern Washington. Her professional background includes work in aquatic ecology, fisheries, and natural resource damage assessment and restoration. Hallie's education includes a Bachelor's degree in Biology from Minnesota State University Moorhead and a Master's degree in Fisheries Science from Texas Tech University.

**Lynn Schmidt** is the Department of Ecology's Statewide Flood Engineer, focusing on reducing flood risks to communities while enhancing natural floodplain functions. Her career has spanned a wide range of topics within the environmental and hydraulics engineering fields, including hydraulic modeling, river restoration, floodplain management, stormwater management, environmental investigations, and monitoring. Lynn holds a BS in Civil Engineering, MS in Environmental Engineering, and is a Professional Engineer and Certified Floodplain Manager.

**Alan Gay** is a licensed Civil Engineer in the states of Washington, Oregon, Idaho and Montana. He is currently an Associate and Senior Engineer with Stantec's Spokane office. He received his Bachelor's degree in Civil Engineering from Montana State University, and a Master's Degree in Civil Engineering specializing in Environmental Engineering from the University of Washington. In his various career assignments, he has studied and designed lagoon embankments, overflow spillways, and conducted or overseen a considerable number of hydrologic and hydraulic analyses supporting civil improvements in the states in which he is licensed. He is currently overseeing engineering staff working on the Oroville Dam face regrading project, conducted to address damage to the Dam caused by the February 2017 spillway failure.

**Lynelle Knehans** has been working for the NRCS in the state of Washington for two years as the Regional Conservation Partnership Program (RCPP) engineer and state irrigation engineer. Her projects focus on watershed restoration and water conservation across the state of Washington, helping private landowners and Native Tribes with water projects. Prior to the NRCS, Lynelle worked for the Forest Service for nine years in Northcentral Idaho as a forest roads and watershed engineer.

## Registration

***Cost:*** **$130.00** (includes seminar, lunch and refreshment breaks)
Full time students are entitled to a reduced enrollment fee of $25.00.
A late fee of $50 will be in effect after regular registration closes, subject to available space.

***Education Credit:***
0.6 CEUs (6 PDHs) for attendance of this course.

***Deadline Notice:***
Space is limited to 60. To ensure participation, enroll early.
Regular Registration will close on October 8th, 2018.

***Registration Process:***

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

***For more Information:***
Contact: Alan Gay
(509) 328-5139 (telephone)
alan.gay@stantec.com