



Water Resources Department  
725 Summer St NE, Suite A  
Salem, OR 97301-1271

## 2013 Oregon Dam Safety Conference

Holiday Inn  
Wilsonville Conference Center  
25425 Southwest 95th Avenue  
Wilsonville, OR 97070

February 26, 2013

8:00 a.m. - 5:00 p.m.

Registration Fee: \$69

## Morning Agenda

### 8:15 Welcome and Introduction

Barry Norris, P.E., PLS  
State Engineer, Oregon Water Resources Department, Salem

### 8:30 Major Historical Dam Failures with Modes of Failure

Keith Mills, P.E., G.E.  
Dam Safety Engineer, OWRD, Salem

### 9:00 Seismic Hazards for Oregon Dams

Yumei Wang, P.E.  
Geotechnical Engineer, DOGAMI (Oregon Geology), Portland

### 9:30 Probable Maximum Precipitation – Oregon Storms

Edward M. Tomlinson, Ph.D  
Applied Weather Associates, LLC, Monument, CO

10:00 BREAK

### 10:30 Peak Flows, from the 100 Year to the Probable Maximum

George Robison, Ph.D, P.E., DWRE  
Project Manager, McMillan LLC, Boise, ID

### 11:00 Potential Failure Modes for Piping and Internal Erosion

Frank L. Blackett, P.E.  
Federal Energy Regulatory Commission, Portland

### 11:30 Dam Break Floods – Understanding Inundation Analysis

Chris Goodell, P.E., D. WRE.  
Senior Hydraulic Engineer, West Consultants, Portland

12:00 LUNCH

## Afternoon Agenda

Concurrent Session - Tools for Dam Owners

### 1:00 FEMA's Role in Dam Safety

Dwight (Ted) Perkins, P.E.  
Hydraulic Engineer FEMA Region 10, Seattle, WA

### 1:30 Control of Vegetation on Dams

Merle Keys  
Weed Control Officer, Wasco County, The Dalles

### 2:00 Developments in Simple Monitoring of Dams

Matthew Craig, P.E.  
Dam Safety Program Manager, USACE, Portland District

2:30 BREAK

Concurrent Session - Conduit inspection and replacement

### 3:00 Replacing Conduits by Slip Lining Case Studies

Ken Martig, P.E.  
Martig Engineering, Olympia, WA

### 3:30 Remote Underwater Inspection of Conduits & Inaccessible Features

Ryan Hedrick  
Hydrologist/diver, US Bureau of Reclamation, PNR, Boise, ID

### 4:00 Replacing Conduit by Boring & Grouting at Freshwater Creek Dam

Jim Shaver, P.E.  
PACE Engineers, Lake Oswego

4:30 Evaluation

Concurrent Session - Seismic - Newport Big Creek dams

### 1:00 Unexpected Results from an Ordinary Boring – Big Creek Dams

Verena Winter, P.E.  
Project Engineer HDR Engineering Inc, Portland

### 1:30 Developing Seismic Parameters the Big Creek Dams

Chris Carpenter, P.E.  
Associate Engineer, Cornforth Consultants, Portland

### 2:00 Big Creek Seismic Assessment – A Phased Approach

Richard Hannan, PE, RPG, CEG  
Geotechnical Engineer, HDR, Portland

2:30 BREAK

Concurrent Session - Embankments

### 3:00 Repair of Embankment Dams with Seepage Problems

George Robison, Ph.D., P.E., DWRE  
Project Manager, McMillan LLC, Boise, ID

### 3:30 Maintenance and Repair at Silver Creek Dam

Gerald Fisher, P.E.  
Public Works Director, City of Silverton

### 4:00 Repair of a Dam with an Un-compacted Embankment

Eric Urstadt, P.E.  
Stuntzner Engineering, Forest Grove

4:30 Evaluation