

Agenda

Presented by Binod Tiwari, Ph.D., P.E.

Analyzing the Stability of Slopes

Evaluating types of slopes

- Natural slopes
- Engineered slopes

Reviewing geologic conditions

Examining soils and topography

Evaluating surface and groundwater conditions

Methods of slope failure

- Rock fall and rockslides
- Slump
- Mudslides

Methods of slope analysis

Case studies

Question and answer

Slope Stabilization Methods

Unloading

Buttressing

Draining

Reinforcing

Installing retaining walls

Use of vegetation

Surface protection

Soil engineering

Rock slope stabilization

Reviewing Slope Stabilization Case Studies

Slope Stabilization and Landslide Prevention
Riverside, CA - Thursday, January 31, 2019

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Learning Objectives

You'll be able to:

Identify the methods and causes of slope failure.

Enhance your ability to evaluate the stability of natural and engineered slopes.

Consider the impact of soils, topography, and surface and groundwater conditions.

Evaluate slope stabilization methods including unloading, draining and reinforcing, using retaining walls, and more.

Apply what you have learned to discussion of slope stabilization case studies.



Slope Stabilization and Landslide Prevention

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Review types of slopes, geologic conditions, and soils and topography

Learn about methods and causes of slope failure

Receive practical guidance on analyzing the stability of slopes

Explore slope stabilization methods, including unloading, buttressing, draining, and soil engineering

Discuss slope stabilization case studies

Continuing Education Credits

Professional Engineers

6.0 Continuing Ed. Hours

Landscape Architects

6.0 LA CES HSW PDHs

Floodplain Managers

6.0 ASFPM CECs

Architects

6.0 AIA HSW Learning Units



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Faculty

Binod Tiwari, Ph.D., P.E. is a professor in the Civil and Environmental Engineering Department of California State University, Fullerton. He earned his Ph.D. degree in Geotechnical Engineering in 2003 and is expert in the fields of slope stability and stabilization, landslide mitigation, applied GIS, soil behavior and characterization, and geotechnical earthquake engineering. Mr. Tiwari is a member of various technical committees for ASCE and the International Society for Soil Mechanics and Geotechnical Engineering, and he is editor as well as reviewer for various international journals. He was post-doc at Niigata University, Japan, and at Virginia Tech for more than three years prior to joining CSUF in the fall of 2006. Mr. Tiwari is a licensed professional engineer in the state of California and has more than 20 years experience in design and implementation of projects pertinent to slope stability and stabilization.

Here’s what past attendees had to say about the seminar and presenter Binod Tiwari:
“Covered many useful topics, had good delivery and addressed questions in a positive manner.”
— *Archaeologist*

“Great content.” — *Geotechnical Engineer*
“Lots of good cross sections of many different landlslides—very helpful.”
— *Deputy Director of Public Works*

“Good seminar.” — *Civil and Environmental Engineer*

Seminar Information

Marriott Riverside at the Convention Center 3400 Market Street Riverside, CA 92501 (951) 784-8000	Registration 8:00 - 8:30 am Morning Session 8:30 - 11:45 am	Lunch (On your own) 11:45 am - 12:45 pm Afternoon Session 12:45 - 4:00 pm
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\$279 for individual registration
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Cancellations: Cancel at least 48 hours before the start of the seminar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another seminar or the self-study package. You may also send another person to take your place.

Additional Learning

Webinar Series

Residential Energy Code

- Introduction to the Residential Energy Code and Mandatory Requirements**
Thurs., Dec. 6, 2018, 11:00 AM - 12:30 PM CST
- IECC Residential Building Envelope Requirements**
Thurs., Dec. 6, 2018, 1:00 - 2:30 PM CST
- IECC Residential HVAC Requirements**
Fri., Dec. 7, 2018, 11:00 AM - 12:30 PM CST
- International Energy Conservation Permit Pathways**
Fri., Dec. 7, 2018, 1:00 - 2:30 PM CST

Deep Foundations

- Deep Foundation Site Evaluation**
Weds., Dec. 12, 2018, 11:00 AM - 12:00 PM CST
- Overview of Deep Foundations**
Weds., Dec.12, 2018, 12:30 - 2:00 PM CST
- Deep Foundation Pile Design**
Thurs., Dec. 13, 2018, 11:00 AM - 12:30 PM CST
- Deep Foundation Installation and Testing**
Thurs., Dec. 13, 2018, 1:00 - 2:00 PM CST

Stormwater Management Systems

- Stormwater Infrastructure Practices**
Weds., Dec. 19, 2018, 11:00 AM - 1:00 PM CST
- Infiltration Management Techniques**
Thurs., Dec. 20, 2018, 11:00 AM - 1:00 PM CST

NFPA 70E Series

- NFPA 70E, Part I**
Weds., Dec. 26, 2018, 11:00 AM - 3:30 PM CST
- NFPA 70E, Part II**
Thurs., Dec. 27, 2018, 11:00 AM - 3:30 PM CST

Seismic Design and Construction

- Seismology and Building Codes**
Thurs., Dec. 27, 2018, 11:00 AM - 3:30 PM CST
- Seismic Design of Building Structures**
Fri., Dec. 28, 2018, 11:00 AM - 3:30 PM CST

For more information and other online learning opportunities visit:
www.halfmoonseminars.org/webinars/

Continuing Education Credit Information

This seminar is open to the public and offers a continuing education opportunity to California professional engineers, landscape architects, architects (non-credit), and floodplain managers. Continuing education is not required for license maintenance or renewal in California.

This seminar is approved by the American Institute of Architects for 6.0 HSW Learning Units (Sponsor No. J885), the Landscape Architecture Continuing Education System for 6.0 HSW PDHs, and the Association of State Floodplain Mangers for 6.0 CECs. Only full attendance can be reported to the AIA/CES and LA/CES.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota. HalfMoon Education is deemed an approved continuing education sponsor for New York architects and landscape architects.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Can’t Attend? Order the Manual and the Audio from the Live Seminar as a Self-Study Package!

An audio recording of this seminar is available for \$289. Allow four weeks from the seminar date for delivery. Please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

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How to Register	
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Complete the entire form. Attach duplicates if necessary.	
Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.	

Tuition

() **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.

() **I am not attending.** Please send me the self-study package for **\$289.00**.

☐ Downloadable MP3 Audio/PDF Manual

☐ CD/Manual Package

(Please allow four weeks from seminar date for delivery)

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