

Agenda

Presented by Sidney May

Introduction

Purpose and history of dams
Types of dams Status of dams Dam failures

Legislation and Liability

Embankment Dams

Design Performance
Instrumentation and monitoring
Performance indicators

Concrete Gravity Dams

Design Performance
Instrumentation and monitoring
Performance indicators

Spillways and Other Types of Dams

Design Performance
Instrumentation and monitoring
Performance indicators

Dam Problems

Vegetation Sinkholes
Slide, slump, or slip
Erosion Rodent activity and animal impact
Seepage

Inspections

Evaluations Decisions
Actions

Developing Emergency Action Plans

What is the purpose of an emergency action plan?
How to develop an emergency action plan

Planning and Implementing a Dam Safety Monitoring Program

What is a dam safety program?
Implementing a dam safety program

Dam Stability and Rehabilitation

Embankment dams
Concrete gravity dams
Spillways and other types of dams

Introduction to Dam Safety, Inspection and Rehabilitation

Live, Interactive Webinar - Tuesday, November 17, 2020



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Learning Objectives

You'll be able to:

Explore the design and performance of embankment dams, concrete gravity dams and spillways.

Understand potential liability concerns and review legislation on dam safety.

Identify dam safety problems, including vegetation, sinkholes, rodent activity and seepage.

Learn about the dam inspection process, and get tips on implementing a dam safety monitoring program.

Develop emergency action plans.

Explore dam stabilization and rehabilitation techniques.



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HalfMoon Education Online Learning

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Explore different types of dams, including embankment dams and concrete gravity dams

Examine the design and performance of spillways

Discuss dam problems, including sinkholes, slump, erosion, and seepage

Get tips on developing dam safety monitoring programs

Develop emergency action plans

Learn about stabilizing and rehabilitating dams

Continuing Education Credits

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7.0 PDHs in all sates



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Faculty

Sidney May, P.E., is a licensed civil engineer with over 10 years of experience. Led by passion, she has secured traditional jobs and gained knowledge and experience in both the public and private sectors. Mrs. May has built her career within various aspects of transportation, including roadway design, temporary traffic control design, geotechnical design and review, environmental planning and compliance, and pavement and drainage design.

Mrs. May began her career as a co-op student analyzing lidar data and assisting in conducting aerial surveys. Upon receipt of her B.S. degree in Civil Engineering from the University of Alabama, she went on to pursue a career in Transportation where she has led subsurface investigations and pavement rehabilitation studies for recommendations on various pavement failure types such as full depth reclamation, lime stabilization, soil-cement stabilization, historic preservation and restoration using flexible, rigid, and masonry materials. She has been intricately involved in project scope recommendations and media press releases while working in construction stormwater. Mrs. May continued her career in environmental planning and compliance ensuring that all construction projects, both state and federal, adhered to the latest environmental laws and regulations. Consequently, she has cultivated relationships with state and federal agencies such as ADEM (Alabama Department of Environmental Management), USACE (US Army Corp of Engineers), SHPO/AHC (State Historic Preservation Office/Alabama Historic Commission), and US Fish and Wildlife. She has led training seminars on the importance of temporary traffic control and believes that successfully managed projects all start and end with competence, confidence, and communication amongst all individuals involved in project management and completion.

Mrs. May is currently an active member of ASCE (American Society of Civil Engineers) where she holds a branch leadership position. She is also working to help establish a coalition for the Alabama Dam Safety Program. Mrs. May is also active in her community, having served as an advisory board member to local Engineering Academies and by mentoring local high school students; motivating them to pursue careers in Engineering.

Webinar Information

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- Mon., October 26, 2020 | 9:30 am - 5:15 pm CDT

International Building Code 2018
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Passive House: Planning and Design
- Tues., October 27, 2020 | 8:30 am - 4:30 pm CDT

Aerial Mapping: Technologies and Procedure
- Tues., October 27, 2020 | 8:30 am - 12:00 pm CDT
- Wed., October 28, 2020 | 8:30 am - 12:15 pm CDT

Introduction to the International Green Construction Code (IgCC)
- Wed., October 28, 2020 | 11:00 am - 2:15 pm CDT
- Thurs., October 29, 2020 | 11:00 am - 2:15 pm CDT

Special Inspections under the 2018 International Building Code Chapter 17
- Thurs., October 29, 2020 | 9:30 am - 4:20 pm CDT

Soils in Construction: An Interactive Workshop
- Thurs, October 29, 2020 | 8:30 am - 5:00 pm CDT

Retaining Wall Design and Global Stability Analysis
- Mon., November 2, 2020 | 9:00 am – 5:00 pm CST

Stormwater Basins and Underground Systems
- Thurs., Nov. 5, 2020 | 12:00 - 4:00 pm CST
- Fri., Nov. 6, 2020 | 12:00 - 3:30 pm CST

2018 International Existing Building Code: Overview and Requirements for all Compliance Methods
- Fri., November 6, 2020 | 10:00 am – 2:30 pm CST

Threats to Trees
- Thurs., Nov. 12, 2020 | 11:00 am - 3:00 pm CST
- Fri., Nov. 13, 2020 | 11:00 am - 2:30 pm CST

Living with Wildlife
- Fri., Nov. 13, 2020 | 11:00 am - 2:30 pm CST

Onsite Wastewater Treatment Systems
- Mon., Nov. 16, 2020 | 8:30 am - 4:30 pm CST

Wastewater Collection and Treatment System Design
- Mon., Nov. 16, 2020 | 8:30 am - 4:30 pm CST

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