Agenda

Presented by Scott Hamel

Understanding Structural Loads
- Probability and reliability
- Types of structural loads and load combinations
- Load path and structural systems
- Importance factor and occupancy category
- Reliability-based design

Dead Loads, Soil Loads, and Hydrostatic Pressure
- Weight of materials and structure
- Soil loads and hydrostatic pressure

Live Loads
- Distributed and concentrated loads
- Live load reduction

Snow Loads
- Ground snow loads in Alaska
- Flat roof snow loads
- Unbalanced, drifting and sliding loads
- Preview of the ASCE 7-22 Standard

Wind Loads
- Wind speed, importance factor, exposure, enclosure classifications
- Allowed procedures (methods 1, 2 and 3)
- Main wind force resisting system
- Components and cladding

Earthquake Loads
- Introduction to seismic design philosophy
- Seismic ground motion values and geotechnical investigation
- Seismic design category
- Base shear and load distribution
- Design criteria for bearing walls and building frame systems

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Alaska Structural Design Loads under ASCE 7-16 Standard
Live, Interactive Webinar - Thursday, November 18, 2021

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Learning Objectives

You'll be able to:

Understand structural loads and discuss the importance of building classification and occupancy.

Explore dead loads, soil loads and hydrostatic pressure.

Examine live loads, including uniformly-distributed loads and concentrated loads.

Calculate unbalanced, sliding, and drifting snow loads.

Discuss main wind force resisting systems.

Review seismic design philosophy and seismic design categories.

HalfMoon Education Live Webinars

Alaska Structural Design Loads under ASCE 7-16 Standard

Live, Interactive Webinar - Thursday, November 18, 2021

Understand different types of structural loads

Discuss dead loads, soil loads and hydrostatic pressure

Learn about live loads including distributed and concentrated loads

Review snow, wind and earthquake loads

Understand seismic design categories and design criteria

Continuing Education Credits

Professional Engineers
7.0 PDHs

Architects
7.0 HSW CE Hours

AIA
7.0 LU|HSW

International Code Council
.70 CEUs (Building)

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Faculty

Scott Hamel *Professor and Chair, University of Alaska Anchorage*
Originally from New Hampshire, Dr. Hamel completed a B.S. degree in Civil Engineering at Worcester Polytechnic Institute in Massachusetts and a master's degree in Civil Engineering with an emphasis in structures at the University of Colorado at Boulder. Between degrees he worked as a bridge inspector, roadway designer, and bridge engineer in Boston and as a structural engineer in Denver designing hospitals, museums, and courthouses. After earning his license as a professional engineer in Colorado, he returned to school and completed his doctorate in Structural Engineering at the University of Wisconsin-Madison. Dr. Hamel's research was located at the USDA Forest Products Laboratory in Madison and included a three-year long creep study of wood-plastic composites (WPCs). Dr. Hamel joined the faculty at the University of Alaska Anchorage in 2011, where his current research includes the performance of plywood/polyurethane structural insulated panels (SIPs), the strength of accreted ice on piles at the Port of Alaska, and a reliability analysis of flawed wood-frame structures during seismic events. At UAA, he teaches undergraduate courses in mechanics, structural analysis and steel design, and graduate-level courses that cover loads on structures, structural reliability, advanced structural analysis, finite-element analysis, and advanced steel design.

Webinar Information

Log into Webinar
8:30 - 9:00 am AKST

Break
11:30 am - 12:00 pm AKST

Morning Session
9:00 - 11:30 am AKST

Afternoon Session
12:00 - 4:50 pm AKST

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Additional Learning

AIA Contract Document Workshop
- Mon, Oct 18, 2021|5:30 am - 1:30 pm AKDT

Handling Ethical Issues in Construction Contracting
- Mon, Oct 18, 2021|7:00 - 8:00 am AKDT

SketchUp for Building Professionals
- Tues, Oct 19, 2021|8:00 - 11:45 am AKDT
- Wed, Oct 20, 2021|8:00 - 11:45 am AKDT

Focus on Passive House and Reducing Carbon Footprint
- Wed, Oct 20, 2021|8:00 - 10:00 am AKDT

Retaining Walls and Lateral Earth Pressure
- Wed, Oct 20, 2021|7:00 - 9:00 am AKDT

Residential Structural Design
- Mon, Oct 25. 2021|5:30 am - 1:30 pm AKDT

How to Analyze Common Construction Defects and Failures
- Tues, Oct 26, 2021|11:00 am - 1:00 pm AKDT

Handling Ethical Issues Associated with Construction Defects and Failures
- Wed, Oct 27, 2021|6:00 - 7:00 am AKDT

Internal Design of MSE Walls and Geosynthetics
- Wed, Oct 27, 2021|7:00 - 10:15 am AKDT

Infrastructure: Structural Analysis and Sustainability
- Fri, Oct 29, 2021|10:30 am - 3:00 pm AKDT
- Fri, Nov 5, 2021|10:30 am - 3:00 pm AKDT

Unreinforced Slope Stability Analysis
- Wed, Nov 3, 2021|7:00 - 9:00 am AKDT

Best (and Worst) Practices for Retaining Wall Success and Interactive Workshop
- Wed, Nov 17, 2021|7:00 - 10:15 am AKST

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and other online learning opportunities visit:
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This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in most states, including Alaska. Educators and courses are not subject to preapproval in Alaska.

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The American Institute of Architects Continuing Education System has approved this course for 7.0 LU|HSW (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

Completion certificates will be awarded to participants who complete this event and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Registration

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How to Register

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