1. Orthometric Heighting with GNSS

Tuesday, May 10, 2022 | 9:00 am - 1:15 pm CDT (incl. a 15-min break)
Tuition: $209

Credits: Professional Engineers: 4.0 PDHs (No credit in NY)
Land Surveyors: 4.0 PDHs (No credit in NY, NY, TN), 4.0 FL PDHs (Course No. 10244)

Agenda Highlights:
- Gravity, geopotential, and the geoid
- Heighting systems
- Orthometric heighting with GNSS

Presented by Thomas H. Meyer, Ph.D., Professor of Geodesy, University of Connecticut

2. How to Design and Construct Accessory Dwelling Units

Wednesday, May 11, 2022 | 12:30 - 2:30 pm CDT
Tuition: $109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours AIA: 2.0 LU|HSW International Code Council: Pending

Agenda Highlights:
- Defining accessory dwelling units
- History of accessory dwelling units (ADUs)
- Benefits and drawbacks
- Land use and permitting issues
- Economics of ADUs
- Types of ADUs

Complying with building codes and standards
- Case studies

Presented by Carrie Shores Diller Principal Architect and Co-Founder

3. Innovations in Edible Landscaping

Tuesday, May 17, 2022 | 1:00 - 3:00 pm CDT
Tuition: $109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours

Agenda Highlights:
- Orthometric heighting with GNSS
- Landscapers 4.0 PDHs (No credit in NY, TN)

Different window SHGC based on orientation
- Heat gain, loss and HVAC capacities
- Reducing total area

- Condensation potential as R-value increases
- Common envelope design shortcomings

- Energy code climate zones
- Meeting code requirements for mixed occupancies

- Foundational hazards for consumer products
- Human factors and the consumer product
- Theory of operation and use vs. actual use (aka. foreseeable/unforeseeable)

- Codes, standards, industry accepted standards – the good, the bad, and the ugly

Case studies

Presented by Peter Chen, M.S.M.E., MBA, P.E., CFEI, ACTAR Mechanical Engineer, ARCCA

4. Designing More Thermally Efficient Residential Envelopes for Northern Cold and Mixed Climates

Monday, May 16, 2022 | 2:30 - 4:30 pm CDT
Tuition: $109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours AIA: 2.0 LU|HSW International Code Council: Pending

Agenda Highlights:
- Cold climate definitions
- Energy code climate zones

- Heating and cooling degree-days
- Energy code envelope requirements for mixed climate zone 4 and cold zones 5, 6 and 7
- R-value and air tightness
- R-value of wood-framed assemblies

Condensation potential as R-value increases
- Common envelope design shortcomings
- Below ground slabs and walls of basements and crawlspaces insulation
- Air barriers
- Blower-door test data
- Reducing overall envelop area

Different window SHGC based on orientation

Presented by John F. Robbins CEM/CSDP Energy Consultant in Morning View, KY

5. Legal Issues Involving COVID-19 and Construction Contracts

Tuesday, May 17, 2022 | 1:00 - 3:00 pm CDT
Tuition: $109

Credits: Professional Engineers: 2.0 PDHs (No credit in NY)
Architects: 2.0 Non-HSW CE Hours AIA: Pending

Agenda Highlights:
- The legal concept of force majeure, including definition developed through common law and case law
- Different types of force majeure clauses, the benefits/detriment of each
- Relief for force majeure and treatment of the clause by courts in different jurisdictions
- Contractual notice provisions and their effects on claims relating to COVID-19
- The imposition liquidated damages in the context of COVID-19
- Indemnification and insurance
- Site safety
- Suspension or termination for convenience
- Consequential damages

Presented by Steven Nudelman Partner at Greenbaum, Rowe, Smith & Davis LLP

6. Construction Trades Coordination on Projects

Tuesday, May 17, 2022 | 10:00 am - 12:00 pm CDT
Tuition: $109

Credits: Professional Engineers: 2.0 PDHs (No credit in NY)
Architects: 2.0 HSW CE Hours AIA: 2.0 LU|Elective International Code Council: Pending

Agenda Highlights:
- Highlighting the importance of kickoff meetings
- Weekly progress meetings
- Site safety
- Site logistics

Presented by Daniel P. Messmer, P.E., D. GE
Project Manager with The Gateway Engineers, Inc. in Pittsburgh, PA

7. Understanding Adverse Possession

Wednesday, May 18, 2022 | 11:00 am - 2:20 pm CDT (incl. a 20-min break)
Tuition: $159

Credits: Professional Engineers: 3.0 PDHs (No credit in NY)
Land Surveyors: 3.0 PDHs (No credit in NY, NY, TN), 3.0 FL PDHs (Course No. 10243)

Agenda Highlights:
- Different forms of possession
- What gives rise to this claim
- How is it pursued
- What is its effect on either clarifying or further muddying the chain of title that surveyors must follow?
- Is there a difference between adverse possession claims and trespassing?
- Is it true that there can be no adverse claims against a governmental entity?

Presented by Wendy Lathrop, PLLC, CFM President and Owner of Cascade Consulting, LLC

8. Mixed Occupancies: A Design Option

Friday, May 20, 2022 | 10:00 - 4:15 pm CDT (incl. a 15-min break)
Tuition: $159

Credits: Professional Engineers: 3.0 PDHs Architects: 3.0 HSW CE Hours AIA: 3.0 LU|HSW International Code Council: 3 CEUs (Building)

Agenda Highlights:
- Defining mixed use buildings and mixed occupancies
- Types of mixed-use buildings
- Treatment of mixed occupancies under International Building Code
- • Accessory occupancies
- • Separated occupancies
- Non-separated occupancies
- Meeting code requirements for mixed occupancies

Presented by Greg Karow Certified Building Official, CEO of Code Educational Opportunities

9. Introduction to Bad Consumer Product Design and Safety

Tuesday, May 24, 2022 | 12:00 - 4:00 pm CDT
Tuition: $109

Credits: Professional Engineers: 2.0 PDHs (No credit in NY)

Agenda Highlights:
- Foundational hazards for consumer products
- Human factors and the consumer product
- Theory of operation and use vs. actual use (aka. foreseeable/unforeseeable)

- Codes, standards, industry accepted standards – the good, the bad, and the ugly

Case studies

Presented by Jeffrey A. Brem, P.E. Senior Project Manager with The Gateway Engineers, Inc., in Pittsburgh, PA

10. How to Design a Stormwater Management System for Residential Sites

Tuesday, May 24, 2022 | 2:00 - 4:00 pm CDT
Tuition: $109

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 HSW CE Hours AIA: 2.0 LU|HSW Landscape Architects: 2.0 HSW CE Hours AIA: 2.0 LU|HSW International Code Council: 2 CEUs (Sitework)

Agenda Highlights:
- Objective
- Drainage components
- Stormwater management plan
- Drainage design parameters
- Hydrologic cycle
- Hydrology - modeling runoff
- Hydrology - methods
- Hydrology theory - HEC 2, TR20, TR55
- Unit hydrograph
- Critical factors
- Storm types, type I, II, III + extreme storms
- Hydrograph for various storm frequencies
- Curve numbers
- Soils
- Case study - DA 110
- Detention basin design
- Energy equation
- Hydraulic theory open channel flow - Manning’s Eq.
- Culvert design
- Stormwater - environmental site design
- Best management practices (BMP) - States
- Low Impact Development (LID)
- Massachusetts Stormwater Handbook & 10 Standards

Presented by Jeffrey A. Brem, P.E. Registered professional engineer in Mass, NH, and Maine

To register, view detailed presenter biographies and agendas, click on the headings below, visit www.halfmooneventseminars.org or call our customer service department at (715) 835-5900.