Credit and Webinar Information

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1. A Deep Dive into Construction Labor Burden
2. Deep Dive into the Zero Code Appendix to the 2021 International Energy Conservation Code
3. Deep Dive into Integrated Stormwater Management
4. Deep Dive into Special Inspections/Third Party Inspections
5. Deep Dive into Slope Stability
6. Deep Dive into Understanding Construction Contract Essentials
7. Deep Dive into Eminent Domain Law
8. Deep Dive: Ecological Landscape Design to Support Pollinators
9. A Deep Dive into Understanding and Mitigating Plastic Pollution

Each webinar earns continuing education credit. Look inside for details and visit us online at www.halfmoonseminars.org for more information.

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1. A Deep Dive into Construction Labor Burden

Thursday, June 3, 2021 | 1:00 - 3:00 pm CDT **Tuition**: $100

Credits: Professional Engineers: 2.0 PDHs Architects: 2.0 CE Hours (Non-HSW)
AIA: 2.0 LU|Elective International Code Council: .2 CEUs (Administration)

Agenda:

Discuss labor components and what they are based on including:
- Labor rate - Premium time - Payroll taxes - Benefits - Paid time off

How to calculate labor costs with burden
Verifying labor cost already incurred
Vetting rates and burden before agreeing to them
What documentation may be (and may not be) available for review
Concepts of union and prevailing wage

Presented by Jake Ortego, PE, CCE, CCP, CCA *Co-Founder, Partner at JACEA*

21 USDDCLBB 6 3 WEBR LH

2. Deep Dive into the Zero Code Appendix to the 2021 International Energy Conservation Code

Friday, June 4, 2021 | 1:30 - 3:00 pm CDT **Tuition**: $75

Credits: Professional Engineers: 1.5 PDHs Architects: 1.5 HSW CE Hours
AIA: 1.5 LU|HSW International Code Council: .15 CEUs (Energy)

Agenda:

Development of the 2021 International Energy Conservation Code (IECC)
The concept of zero net carbon
The development of the Zero Code Appendix to the IECC
Adopting a net-zero-carbon standard
Encouraging onsite renewable energy
Encouraging off-site renewable energy
Implementation guides and resources

Presented by Lawrence Lile, PE, LEED AP BD+C, QCXP *Owner of Lile Engineering*

21 USDDZCAP 6 4 WEBR TC

3. Deep Dive into Integrated Stormwater Management

Tuesday, June 8, 2021 | 2:00 - 5:15 pm CDT (incl. 15-min. break) **Tuition**: $150

Credits: Professional Engineers: 3.0 PDHs Architects: 3.0 HSW CE Hours
AIA: 3.0 LU|HSW Landscape Architects: 3.0 HSW CE Hours LA CES: 3.0 HSW PDHs
Floodplain Managers: 3.0 ASFPM CECs Certified Planners: CM|3 (9213716)

Agenda:

Session 1: What is integrated stormwater management (ISWM)
- Impacts of development and stormwater management
- Defining an integrated stormwater management approach
- Clean Water Act, national pollutant discharge elimination system (NPDES) and MS4
- Changes in stream flow, stream geometry and water quality

Session 2: Rethinking stormwater management
- Why utilize an integrated stormwater management approach
- Social and economic impacts of uncontrolled stormwater
- Holistic approach to stormwater management – one water
- What are the benefits of an integrated stormwater management?

Session 3: Tools for an integrated stormwater system
- Designing a treatment train paradigm
- Low Impact Development planning
- Green infrastructure tools
- Case studies

Presented by
Scott Southall, RLA, LEEP AP *Principal at Earthcylce Design*
Denise O'Meara, RLA, LEEP AP *Landscape Architect at Earthcylce Design*

21 USDDISWM 6 8 WEBR FC

4. Deep Dive into Special Inspections/ Third Party Inspections

Wednesday, June 9, 2021 | 11:00 am - 1:00 pm CDT **Tuition**: $100

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

Agenda:

Special inspection origins
Special inspection roles and responsibilities
Statement of special inspections
Material testing
Failure and defect review

Presented by Laurence W. Keller, P.E. *Principal at Whitestone Associates, Inc.*

21 USDDSI3P 6 9 WEBR JB

5. Deep Dive into Slope Stability

Monday, June 14, 2021 | 10:00 am - 2:30 pm CDT (incl. two 15-min. breaks) **Tuition**: $200

Credits: Professional Engineers: 4.0 PDHs Architects: 4.0 HSW CE Hours
AIA: 4.0 LU|HSW Landscape Architects: 4.0 HSW CE Hours LA CES: 4.0 HSW PDHs
Floodplain Managers: 4.0 ASFPM CECs International Code Council: .4 CEUs (Sitework)

Agenda:

Unreinforced Slope Stability Analysis
- Fundamental soil characteristics and slope instability
- Engineering mechanics underlying slope instability
- Geologic conditions and construction practices
- Field observations to distinguish types of instability
- Construction practices to improve or restore stability
- Examining causes of slope instability
- Evaluating slopes
- Slope stability analysis
- Engineered slopes

Reinforced Slope Stability Analysis
- Geosynthetic materials and their properties
- Learn to visually identify geosynthetics as to type, method of manufacture, relative strength, relative permeability, and relative cost
- Geosynthetics and their roles in slope stability
- Deep seated stability analysis
- Calculations and software
- Exercise/example
- Case histories/examples of slope failures and repairs

Presented by
Bill Simpson, P.E. *Geotechnical Structure Design Specialist at Engineered Earth Solutions, LLC*

21 USDDSLPS 6 14 WEBR LH

6. Deep Dive into Understanding Construction Contract Essentials

Monday, June 14, 2021 | 1:00 - 2:30 pm CDT **Tuition**: $75

Credits: Professional Engineers: 1.5 PDHs Architects: 1.5 CE Hours (Non-HSW)
AIA: 1.5 LU|Elective International Code Council: .15 CEUs (Administration)

Agenda:

Examining contract terminology: parties, consideration, term, performance, substantial performance, breach, remedies, damages
Studying roles and relationships of project participants: owners, architects/engineers, construction managers, contractors, subs and suppliers
Understanding the project delivery system: traditional design-bid-build, design-build, construction manager at risk, multiple prime contractor, owner control
Understanding types of construction contracts: lump sum, cost plus, time and materials, unit pricing
Exploring the law of construction contract interpretation

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

21 USDDUCCE 6 14 WEBR PC

7. Deep Dive into Eminent Domain Law

Wednesday, June 16, 2021 | 2:00 - 4:00 pm CDT **Tuition**: $100

Credits: Professional Engineers: 2.0 PDHs (Excluding NY)
Land Surveyors: 2.0 PDHs (Excluding FL, MO, NJ, NY, RI, TN)

Agenda:

Understanding eminent domain powers
- Source of eminent domain powers
- History of the exercise of eminent domain powers
- Types of eminent domain "takings"

Just compensation: valuing "taken" property
Privatization of eminent domain and other current issues

Presented by Lora Gunter, JD, SR/WA *Vice President – Transportation, Percheron, LLC*

21 USDDIEDL 6 16 WEBR TB

8. Deep Dive: Ecological Landscape Design to Support Pollinators

Tuesday, June 22, 2021 | 1:00 - 4:30 pm CDT (incl. two 15-min. breaks) **Tuition**: $150

Credits: Professional Engineers: 3.0 PDHs Architects: 3.0 HSW CE Hours
AIA: 3.0 LU|HSW Landscape Architects: 3.0 HSW CE Hours LA CES: 3.0 HSW PDHs
Certified Arborists: ISA Pending

Agenda:

Exploration of the varied animal pollinators that can be supported in managed landscapes
Deep dive into pollination syndromes, plant preferences and evolutionary plant-pollinator associations
Ecological design principles that work for pollinators (and humans)
Effective use of pollinator-supportive woody plants and herbaceous perennials in landscape design
Designing habitats, not just floral buffets
Site selection, planting realties and maintenance considerations

Presented by Kim Eierman
Environmental horticulturist, ecological landscape designer, founder of EcoBeneficial LLC

21 USDDLD4P 6 22 WEBR LH

9. A Deep Dive into Understanding and Mitigating Plastic Pollution

Tuesday, June 29, 2021 | 1:00 - 3:00 pm CDT **Tuition**: $100

Credits: Professional Engineers: 2.0 PDHs AIA: 2.0 LU|HSW
LA CES: 2.0 HSW PDHsCertified Planners: CM|2

Agenda Highlights:

Introduction to plastic pollution and origin
Where does it come from?
Types of debris - Fishing nets, single-use plastic packaging, microplastic, microfibers, more
How does it end up in the environment
Harmful impacts
Invisible effects
Solutions
Site selection, planting realties and maintenance considerations

Presented by Sarah-Jeanne Royer, PhD. *Research Scientist Center for Marine Debris Research, Hawaii Pacific University*

Mugdha Flores, M.S. *Marine Biologist and Science Communicator Education Advisor at Sustainable Coastlines Hawaii*

21 USDDIUMP 6 29 WEBR LH