Credit Information

Missouri Wetlands Law and Compliance

This webinar offers 6.5 PDHs to professional engineers in all states and 6.5 HSW continuing education hours to architects licensed in all states. It offers 6.5 HSW continuing education hours to landscape architects in most states. HalfMoon Education will not be seeking landscape architect course approval in Florida, New Jersey, or North Carolina.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700), and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for $6.5 \text{ LU} \mid \text{HSW}$ (Sponsor No. J885). The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the AIA/CES and LA CES.

The Missouri Bar has approved this course for 7.8 CLE hours (0.0 ethics hours).

The Association of State Floodplain Managers has approved this course for 6.5 CECs for floodplain managers.

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

International Residential Code

This seminar is open to the public and offers 7.0 continuing education hours to professional engineers and 7.0 HSW continuing education hours to architects in Missouri.

Architects and engineers seeking continuing education credit in other states will be able to apply the hours earned at this seminar, in most cases. Refer to specific state rules to determine eligibility.

This event is approved by the American Institute of Architects Continuing Education System for 7.0 HSW Learning Units (Sponsor No. J885). Only full attendance can be reported 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).

This event offer a non-credit continuing education opportunity to construction contractors. This event has not been approved by any state with a continuing education requirement for contractors.

In-person 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.

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

Can't Attend? Order the Programs as a Self-Study Packages!

Recordings of each program are available for purchase. See course listing online for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit. Self-study packages do not qualify for AIA or LA CES credit.

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and Live Webinars

Seminar

In-Person

Compliance

Missouri Wetlands Law and International Residential Co HalfMoon Education Inc. PO Box 278 Altoona, WI 54720-0278



Live, Interactive Webinars

Missouri Wetlands Law and Compliance

- Online Webinar Only | Thursday, October 21, 2021

International Residential Code

- St. Louis, MO or Online | Thursday, October 28, 2021

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Live, In-Person Seminars and Live Webinars



Missouri Wetlands Law and Compliance

Online Webinar Only | Thursday, October 21, 2021 8:30 am - 4:30 pm CDT

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours AIA: 6.5 LU | HSW Landscape Architects: 6.5 HSW CE Hours LA CES: 6.5 HSW PDHs Floodplain Managers: 6.5 ASFPM CECs Attorneys: 7.8 MO CLE Hours



International Residential Code

St. Louis, MO or Online | Thursday, October 28, 2021 8:30 am - 5:00 pm CDT

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours AIA: 7.0 LU | HSW International Code Council: .7 CEUs (Building)









Missouri Wetlands Law and Compliance

Online Webinar Only | Thursday, October 21, 2021 8:30 am - 4:30 pm CDT (incl. a 60-min break)

Tuition: \$289 per registrant, \$239 per registrant for three or more

Credits: Professional Engineers: 6.5 PDHs Architects: 6.5 HSW CE Hours AIA: 6.5 LU | HSW Landscape Architects: 6.5 HSW CE Hours LA CES: 6.5 HSW PDHs Floodplain Managers: 6.5 ASFPM CECs

Attorneys: 7.8 MO CLE Hours

Webinar Information:

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar.

For system requirements, please visit the FAQ section of our website, or visit www.gotowebinar.com.

Agenda

Identifying Wetlands

Presence of wetland vegetation Identification of wetland soils

Importance of underlying wetland hydrology

Understanding Federal and State Wetlands Laws and Enforcement

B. Morrison B. Menees

L. Eggering

The Federal Clean Water Act

National Food Security Act of 1985

State laws and regulations

Implementing/enforcing agencies

• U.S. Army Corps of Engineers • U.S. Environmental Protection Agency

• U.S. Department of Agriculture • U.S. Fish and Wildlife Service

• Missouri Department of Natural Resources

Wetlands Permitting Process

S. Miller

Wetlands determinations and delineations Determining applicability of regulations

Wetland permitting and certification processes

Notice provisions Review process Mitigation/compensation requirements Appeals process

Wetland Mitigation: Restoration Ecology,

S. Staten

Design, and Project Success

Understanding the importance of wetlands

Wetland ecology

• To replicate wetland ecology, first understand wetland ecology

Local wetland types

Reference sites

Mitigation options: banks, in-lieu fee programs, and permittee-responsible sites Mitigation methods: restoration, creation, enhancement, and preservation

In-depth: Missouri wetland mitigation method

How to maximize credit production

Wetland design strategies Site selection Real world design example Construction tips

Vegetation establishment and maintenance

Design for wildlife Performance standards

Monitoring

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Courtyard St. Louis Airport/Earth City

3101 Rider Trail South St. Louis, MO 63044 (314) 209-1000

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Agenda

Development and Enforcement of International Residential Code

International Residential Code (IRC) adoption and enforcement in MO Recent and anticipated Code amendments Future of the Code

Building Planning and Shell Construction (Chapters 2-10)

Definitions Alternative provisions and design criteria

Wind effects and protection of openings

Seismic provisions Story height and live loads

Snow loads Fire-resistant construction and exterior walls

Dwelling unit separations and garage separation

Ceiling heights Glazing

Garages and carports Ingress, egress and stairways

Fire and carbon monoxide safety and detection

Foam plastic Wood and wood-based products Accessibility Floods, storms and drainage Soils and foundations Framing and fastening Walls and wall covering Roof/ceiling construction Roof assemblies Fireplaces and chimneys

Energy Efficiency (Chapter 11)

Compliance Building thermal envelope Climate classifications Permanent energy certificate

Insulation and fenestration **Building systems**

Lighting

Mechanical, Fuel, Plumbing and Electrical Systems

Appliance installation and exhaust systems

Ventilation Hydronic systems

Fuel gas systems and appliances

Plumbing fixtures Drains

Backflow preventers, venting, sumps and ejectors

Fire sprinkler systems Electrical system grounding Intersystem bonding termination Overcurrent devices

Electrical outlets Luminaires

Pools, spas and hot tubs

21 MOIRCODE 10 28 STLS IB/21 MOIRCODE 10 28 WEBC IB

Choose the way you want to learn!

International Residential Code will be presented simultaneously live, in-person and live online! Move from in-person to online anytime!

International Residential Code COVID Health Considerations: In accordance with guidance from the Centers for Disease Control and Prevention (CDC), only those who are fully vaccinated should gather indoors without masks. Those not yet fully vaccinated should continue social distancing and wearing facemasks indoors. Please review CDC guidance for recent developments.

No walk-in registrations will be accepted.

Faculty

Missouri Wetlands Law and Compliance

Luke F. Eggering PMC, SPWS Project Manager/Senior Biologist, Parsons, St. Louis

Bruce A. Morrison

The Morrison Law Firm and Great Rivers Environmental Law Center, St. Louis

Bob Menees Staff Attorney with Great Rivers Environmental Law Center in St. Louis

Stephanie Miller, PWS

Senior Scientist, Wood Environment & Infrastructure Solutions, Inc., St. Lou

Shane C. Staten, PWS Senior Restoration Manager, Swallowtail Environmental, St. Louis

International Residential Code

Joseph Iliff, CBO Building Official for City of Republic, Missouri

See course listings online to view detailed presenter information.

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Additional Webinars

Drones in Construction

- Tues, Sept 28, 2021 | 9:30 am - 5:00 pm CDT

Focusing on Site Engineering: Under a Microscope

- Wed, Sept 29, 2021 | 2:00 - 4:00 pm CDT

A Roadmap to Ethical Issues in **Construction: A Primer for Design Professionals**

- Wed, Sept 29, 2021 | 11:00 am - 1:00 pm CD1

Focus on Slope Stability Analysis

How to Implement a **Construction Site Grading Plan**

- Thurs, Sept 30, 2021 | 8:30 - 10:30 am CDT

How to Handle Claim Issues and **Dispute Resolution for Public and Private Construction Projects**

- Tues, Oct 12, 2021 | 10:00 am - 1:15 pm CDT

Soil Testing, Properties and Uses

- Wed, Oct 13, 2021 | 10:00 am - 12:00 pm CDT www.halfmoonseminars.org

International Building Code 2021

- Thurs, Oct 14, 2021 | 8:00 am - 4:00 pm CDT

Advanced Healthy HVAC: Balancing First Cost, Occupant Comfort, and Safety

- Fri, Oct 15, 2021 | 8:30 am - 5:00 pm CDT

AIA Contract Document Workshop

- Mon, Oct 18, 2021 | 8:30 am - 4:30 pm CDT

SketchUp for Building Professionals

- Tues, Oct 19, 2021 | 11:00 am - 2:45 pm CDT - Thurs, Sept 30, 2021 | 11:00 am - 1:00 pm CDT - Wed, Oct 20, 2021 | 11:00 am - 2:45 pm CDT

Retaining Walls and Lateral Earth Pressure

- Wed, Oct 20, 2021 | 10:00 am - 12:00 pm CDT

Internal Design of MSE Walls and Geosynthetics

- Wed, Oct 27, 2021 | 10:00 am - 1:15 pm CDT

For more information and other online learning opportunities visit: