Faculty

Land Description Systems

J Cole Helfrich Craig R. Knoche & Associates, P.C.

Mr. Helfrich first picked up a plumb bob in 1971 for Webster & Associates. From tape-andtransit to GPS, mortgage surveys to shopping centers, he has his seal on well over a billion dollars of commercial, residential and institutional developments and transactions in 22 counties in Illinois. Mr. Helfrich has enjoyed working with countless prominent developers, attorneys and other professionals in the field and the office. His specialties include real estate law, boundaries and boundary law, easements, rights-of-way and other encumbrances and servitudes, statutory and common-law plats, ALTA surveys, topography, building and site layout, construction- and project-management as well as land development consulting. Mr. Helfrich is a member of the National Society of Professional Surveyors and the Illinois Professional Land Surveyors Association. For the last 23 years he has been principal land surveyor with Craig R. Knoche & Associates, P.C. in Geneva, Illinois.

Floodplain Modeling, Mapping and Regulation

Gene L. Rovak, P.E. CFM, F.ASCE Senior Project Manager at Horner & Shifrin Mr. Rovak is a professional engineer and certified floodplain manager with over 40 years of experience in all aspects of floodplain management. His work requires understanding of FEMA regulations and interpretation of FEMA Flood Maps (FIRMs) and Flood Insurance Studies (FIS). Mr. Rovak has extensive experience in Letters of Map Changes (LOMCs), particularly Letters of Map Revisions (LOMRs), which have ranged from single reaches along a channel to large areas affecting many map panels. Related studies have ensured that infrastructure improvements such as bridges or docking facilities would not cause increase in flood heights ("no-rise" studies)

Mr. Rovak's experience has covered riverine flooding (river and creek channels) as well as levelpool environments (lakes and landlocked floodwater storage). He has performed hydraulic and hydrologic analysis of these systems working with a variety of computer models in the public domain such as Corps of Engineers and EPA, as well as proprietary programs such as ICPR and XP-SWMM. Mr. Rovak's experience includes steady, unsteady, and network flow simulations.

Tracking the Railroads

Wendy Lathrop, PLS, CFM President and Owner of Cadastral Consulting, LLC Ms. Lathrop is licensed as a professional land surveyor in New Jersey, Pennsylvania, Delaware, and Maryland, and as a professional planner in New Jersey. She holds a master's degree in Environmental Policy, and has been involved in surveying since 1974 in projects ranging from construction to boundary to environmental land use disputes. Ms. Lathrop is also a certified floodplain manager through the Association of State Flood Plain Managers (ASFPM). A former adjunct instructor at Mercer County College in New Jersey, she has also taught as part of the team for the licensing exam review course at Drexel University in Pennsylvania. Ms. Lathrop has been teaching seminars for surveyors since 1986 and has been writing articles for surveyors since 1983. She is a contributing editor for The American Surveyor magazine, and she has four articles included in the American Bar Association's text, Land Surveys: A Guide for Lawyers and Other Professionals. She and Stephen V. Estopinal, PLS, PE co-authored a book entitled Professional Surveyors and Real Property Descriptions: Composition, Construction, and Comprehension, published by John Wiley & Sons, Inc. in 2011, She is also on the faculty of GeoLearn, a web-based educational provider. Ms. Lathrop is a past president of the New Jersey Society of Professional Land Surveyors and of the National Society of Professional Surveyors, and she has served on the Board of Directors for the American Association for Geodetic Surveying.

Surveyors and Other Professionals Land Webinars September Ēngineers,



HalfMoon Education Live Webinars

Land Description Systems

- Tuesday, September 22, 2020 | 11:00 am 2:15 pm CDT
- Wednesday, September 23, 2020 | 11:00 am 2:15 pm CDT

Floodplain Modeling, Mapping and Regulation

- Tuesday, September 22, 2020 | 10:00 am 2:00 pm CDT
- Wednesday, September 23, 2020 | 11:00 am 2:15 pm CDT

Tracking the Railroads

- Wednesday, September 30, 2020 | 11:00 am - 4:00 pm CDT

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HalfMoon Education Online Learning

September Land Webinars

for Engineers, Surveyors and Other Professionals



Land Description Systems in Land Survey States - Tuesday, September 22, 2020 | 11:00 am - 2:15 pm CDT

- Wednesday, September 23, 2020 | 11:00 am 2:15 pm CDT
- 6.0 Continuing Education Hours

Floodplain Modeling, Mapping and Regulation - Tuesday, September 22, 2020 | 10:00 am - 2:00 pm CDT

- Wednesday, September 23, 2020 | 11:00 am 2:15 pm CDT
- 6.0 Continuing Education Hours

Tracking the Railroads

- Wednesday, September 30, 2020 | 11:00 am 4:00 pm CDT
- 4.0 Continuing Education Hours (See inside for details)





Land Description Systems in Land Survey States

A Two-Day Webinar Series Tuition: \$299 per registrant, \$199 per registrant for three or more

Credits: Professional Engineers: 6.0 PDHs
Certified Planners: 6 | CM

Land Surveyors: 6.0 PDHs

Tuesday, September 22, 2020 | 11:00 am - 2:15 pm CDT (including a 15-min. break)

Working with Metes and Bounds Descriptions

Basic land description concepts: distances, directions, circular curves,

mathematical closure, state plane coordinates

Reading a metes and bounds description

Writing a description

Drawing a description

Software for mapping, drawing and locating described lands

Working with the U.S. Public Land Survey System (PLSS)

PLSS basics: meridians, baselines, ranges, townships, sections

Public Land Survey System (PLSS)

Aliquot parts

"Part of" descriptions

Reading a PLSS description

Writing a description

Drawing a description

Software/websites for mapping, drawing and locating described lands

Wednesday, September 23, 2020 | 11:00 am - 2:15 pm CDT (including a 15-min. break)

Statutory Plats in Land Survey States

Duties under Plat Act

Certification and recording

Affidavits and exceptions

Reading and locating platted descriptions

Writing a description

Drawing a description

Software/websites for mapping, drawing and locating described lands

Describing Rights to Access Land

Private easements Utility easements
Utility rights-of-way Public rights-of-way

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Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See registration panel 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.

Floodplain Modeling, Mapping and Regulation

A Two-Day Webinar Series Tuition: \$299 per registrant, \$199 per registrant for three or more

Credits: Professional Engineers: 7.0 PDHs Architects: 7.0 HSW CE Hours

AIA: 7.0 HSW LU|HSW Land Surveyors: 7.0 PDHs

Floodplain Managers: 7.0 ASFPM CECs Certified Planners: 7 | CM

Tuesday, September 22, 2020 | 10:00 am - 2:00 pm CDT (including a 30-min. break)

Understanding Floods, Floodplains and Floodplain Management

Flood facts and figures
Types of floodplains
Causes and types of floods
Understanding floodways

History and development of flood maps, flood insurance and flood plain management

Role of the National Flood Insurance Program (NFIP)
Role of state agencies and local municipalities

Federal, State and Local Floodplain Regulation

Reviewing NFIP regulations Understanding permit requirements
Analyzing encroachments Complying with state regulations

Examining Flood Insurance and Flood-Related Claims

National Flood Insurance Program (NFIP)

NFIP public/private partnership

Determining when insurance is required and when it is recommended

Flood insurance coverage and exclusions

· Residential and commercial coverage

Understanding the claims process

Wednesday, September 23, 2020 | 10:00 am - 2:00 pm CDT (including a 30-min. break) Obtaining and Interpreting Flood Maps

Development of flood maps

- · Understanding FEMA flood zone designations
- Examining Flood Insurance Rate Maps (FIRMs)
- · Digital flood map implementation policy
- Flood map modernization and previous stumbles
- \cdot Multi-year flood hazard identification plan

Reading and interpreting flood maps

Examining the impact of flood designating and mapping

Reviewing FEMA flood hazard determinations

Requesting flood hazard determination review

Understanding Letters of Map Change (LOMC)

Software for mapping, drawing and locating described lands

LOMR Model Requirements

Differences between Letters of Map Amendments (LOMAs) and Letters of Map Revisions (LOMRs), and types of LOMRs

Navigating the submission and review processes - engineering and administrative procedures

Modeling Floodplains

Selecting and using FEMA-accepted models

 $\label{problem} \mbox{Hydrologic methods--which to use for your location}$

Floodplain modeling with HEC-RAS Modeling bridges and culverts Floodways—encroachment analyses Common modeling issues

Processes and cautions Using data obtained from the model

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Tracking the Railroads

Tuition: \$199 per registrant, or \$199 per registrant for three or more

Credits: Professional Engineers: 4.0 PDHs Land Surveyors: 4.0 PDHs

Certified Planners: 4 | CM

Wednesday, September 30, 2020 | 11:00 am - 4:00 pm CDT (including a 30-min. break) What is a "Railroad" by Law? (And Why Does It Matter?)

Highway or utility – public rights and railroad responsibilities

The effects of railroads on development of the US

The evolution of the regulatory framework affecting railroads in the US

Railroad Records and Regulation

Finding information about physical, legal, and historical railroad aspects

The birth of Rails to Trails

Railroad abandonment

- · What "abandonment" means, physically and legally
- The process for abandonment

Examining the Extent, Type, Location and Time/Duration of Railroad Rights

Deciphering if railroads acquired ownership or easement or other rights

The extent of railroad rights, and significance to landowners and railroads

Shared uses of the railroad corridor

Decisions relating to Rails to Trails conversions

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Continuing Education Credit Information

See each course listing for the type and amount of each continuing education credit available. Individual courses for engineers and architects are not subject to pre-approval. HalfMoon Education does not apply for landscape courses in FL, NC, and NJ or land surveyor courses in FL, KS, NJ, TN and TX, unless expressly stated.

HalfMoon Education Certifying Entities

American Institute of Architects Continuing Education System (No. J885)

International Code Council (No. 1232)

Landscape Architect Continuing Education System

American Institute of Certified Planners (APA)

Boards of Engineering: Florida (No. 0004647), Indiana (License No. CE21700059),

Maryland, New Jersey (Approval No. 24GP00000700), North Carolina (No. S-0130), and North Dakota.

Course-by-Course Providers:

Association of State Floodplain Managers

American Planning Association/AICP

HalfMoon Education is deemed a New York-approved continuing education provider for engineers, architects, and landscape architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner \$68.14(i)(2), \$69.6(i)(2), and \$79-1.5(i)(2)).

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