

HalfMoon Education Live Continuing Education Webinars

Late-Summer Surveying Catalog

Floodplain Mapping, Insurance and Regulation

- Wednesday, August 10 and Thursday, August 11, 2022

Land Description Systems

- Monday, August 29 and Tuesday, August 30, 2022

Aerial Mapping Technologies and Procedures

- Thursday, September 1, 2022

Learn More and Register:

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Floodplain Mapping, Insurance and Regulations

Wednesday, August 10 and Thursday, August 11, 2022
10:00 am - 1:15 pm CDT | Tuition: \$319

Land Surveyors: 6.0 PDHs (in Most States, no land surveyor credit in Delaware or New Jersey), Professional Engineers: 6.0 PDHs
Architects: 6.0 HSW CE Hours | AIA: 6.0 LU | HSW
Floodplain Managers: 6.0 CECs, Certified Planners: CM | 6

Agenda Day One Highlights

Flood Insurance Rate Maps, Flood Insurance Studies, and Letters of Map Change

- History and types of flood maps
- Reading and interpreting flood maps
- Flood insurance studies
- Obtaining and using flood maps
- Map determinations
- Letters of Map Change

Agenda Day Two Highlights

National Flood Insurance Program and International Building Codes: Development Standards for Floodplains

- Types of floods and floodplains
- Introduction to FEMA's Floodplain Regulatory Staircase: 44CFR60.3
- Introduction to the International Building Code and relationship to FEMA regulations
- Key terms and concepts
- Ways to elevate
- Floodways
- Base flood elevations, design flood elevations, and freeboard
- Flood zones that do not have flood elevations
- Substantial improvement and substantial damage
- Floodproofing
- Manufactured homes
- Recreational vehicles
- Historic structures
- Variances

Presented by William Nechamen, CFM
Principal and Owner of Nechamen Consulting, LLC

Land Description Systems

Monday, August 29 and Tuesday, August 30, 2022
11:00 am - 2:15 pm CDT | Tuition: \$319

Land Surveyors: 6.0 PDHs (in Most States, no credit in Delaware or New Jersey) 7.0 PDHs (Florida)
Landscape Architects: 7.0 HSW CE Hours, LA CES: 7.0 HSW PDHs
Engineers: 6.0 PDHs

Agenda Day One Highlights

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

Agenda Day Two Highlights

Statutory Plats in Public 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

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

Aerial Mapping Technologies and Procedures

Thursday, September 1, 2022
8:30 am - 5:00 pm CDT (incl. a 60-min break) | Tuition: \$319

Land Surveyors: 7.0 PDHs (in Most States, no credit in Delaware or New Jersey), Landscape Architects: 7.0 HSW CE Hours, LA CES: 7.0 HSW PDHs, Engineers: 7.0 PDHs

Agenda Highlights

Overview of Aerial Mapping Technologies in June

- Manned aircraft vs. unmanned aircraft systems (UAS)
- UAS platforms, photogrammetry and LiDAR
- Aerial mapping regulation

Commercial UAS Applications

- Agriculture
- Architecture and construction
- Engineering
- Environmental monitoring and compliance
- Defense and public safety
- Marketing, media and public relations
- Infrastructure development and maintenance

Mapping Using UAS

- Software set-up
- Preflight planning
- Flight operations
- Post-processing

UAS Data-Processing Software

- Pix4D
- DroneDeploy
- Autodesk
- Agisoft
- Others

Photogrammetry Demonstration/Case Study

- Software demonstration
- Working with control points
- Deliverables

FAA Commercial UAS Regulations

- Commercial/recreational
- Operating rules
- Remote pilot, UAS and airspace requirements

FAA Part 107 Remote Pilot License

- When required, preparing for the test, where to take the test

Presented by Mark D. Jones, P.E.
Principal, Hartech Engineering & Consulting, LLC