

Credit Information

Significance of GIS and GPS in Engineering & Surveying

This webinar is open to the public and is designed to qualify for 2.0 PDHs for professional engineers and land surveyors in most states. This course is not eligible for CE credits in New York; please refer to specific state rules to determine eligibility.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider License No: CEA362), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130).

HalfMoon Education is an approved continuing education sponsor for land surveyors licensed in Indiana (License No. CE10600325), Maryland, and North Carolina (S-0130).

This course has been registered with the Florida Board of Professional Surveyors and Mappers for 2.0 CE credits and has been approved for 2.0 PDUs by the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors and Professional Landscape Architects.

Federal Land Boundaries and Access Rights

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers in most states that allow this learning method. This course is not approved in New York; please refer to specific state rules to determine eligibility.

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This course has been registered with the Florida Board of Professional Surveyors and Mappers for 6.0 CE credits and has been submitted to the Missouri Board for Architects, Professional Engineers, Professional Land Surveyors and Professional Landscape Architects for accreditation, which is currently pending.

This course has been approved by the State Bar of Texas for 6.0 CLE Hours and has been submitted to the Texas Board of Legal Specialization.

This course has been submitted to the Utah State Board of Continuing Legal Education for accreditation which is currently pending.

Topographic Surveys, Easements and Original vs. Retracement Surveys

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers and land surveyors in most states. This course is not eligible for CE credits in New York; please refer to specific state rules to determine eligibility.

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Attendance will be monitored, and attendance certificates will be available after the webinar for those who attend the entire course and score a minimum 80% on the quiz that follows the course (multiple attempts allowed).

On-Demand Credits: The preceding credit information only applies to the live presentation. This course in an on-demand format may not be eligible for the same credits as the live presentation; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate.

February Land Webinars

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Live, Interactive Webinars

Significance of GIS and GPS in Engineering & Surveying

- Tuesday, February 6, 2024 | 2:00 - 4:00 pm CST

Federal Land Boundaries and Access Rights

- Wednesday, February 7, 2024 | 9:00 am - 4:00 pm CST

Topographic Surveys, Easements and Original vs. Retracement Surveys

- Wednesday, February 21, 2024 | 9:00 am - 4:05 pm CST

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HalfMoon Education Live Webinars

February Land Webinars



Significance of GIS and GPS in Engineering & Surveying

Tuesday, February 6, 2024 | 2:00 - 4:00 pm CST

Credits: Land Surveyors: 2.0 PDHs | Professional Engineers: 2.0 PDHs

Federal Land Boundaries and Access Rights

Wednesday, February 7, 2024 | 9:00 am - 4:00 pm CST

Credits: Land Surveyors: 6.0 PDHs | Professional Engineers: 6.0 PDHs
Attorneys: 6.0 CLE Hours (TX), Pending (UT)

Topographic Surveys, Easements and Original vs. Retracement Surveys

Wednesday, February 21, 2024 | 9:00 am - 4:05 pm CST

Credits: Land Surveyors: 6.0 PDHs | Professional Engineers: 6.0 PDHs

These programs do not offer credit for NY engineers or surveyors



Significance of GIS and GPS in Engineering & Surveying

Tuesday, February 6, 2024 | 2:00 - 4:00 pm CST

Tuition: \$109 per registrant

Credits: Land Surveyors: 2.0 PDHs* | Professional Engineers: 2.0 PDHs*

Agenda:

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|---|-------------------------------------|
| What is GIS and GPS? | Surveying with GPS |
| GIS applications in civil engineering | Applications of GIS in surveying |
| Components of GIS | GIS and surveying are complementary |
| The benefits of GIS | Why should surveyors use GIS tools |
| Importance of land surveying and GIS services | |
| What Is GPS and how is it Used in engineering | |
| How is GPS being used in land surveying | |
| GPS instruments for land surveying | |
| The pros and cons of GPS for land surveying | |
| Who uses GPS surveying | What industries use GPS surveying |
| Applications of GPS | Applications of GIS |
| Sources of GPS signal errors | GPS frequencies |
| Q&A | |

Presented by Avinash Prasad PE, PLS, PP, PhD, MSCE, MSEM, F. ASCE, MAREMA

Dr. Avinash Prasad is a licensed professional engineer, land surveyor, and professional planner with more than three decades of professional experience in civil engineering, surveying and management field. He has recently earned a doctor of philosophy degree from New York University in Civil Engineering. Dr. Prasad has double master of science degrees in Civil Engineering and Engineering Management from New Jersey Institute of Technology and a BS degree in Civil Engineering. He has more than 2000 hours of continuous professional education as an instructor/participating professional (1990-2022) excluding formal education. Dr. Prasad is a New Jersey state certified emergency medical technician (EMT), emergency medical responder (EMR), and fire fighter (FF). He is a Fellow of American Society of Civil Engineers and an active member of several professional organizations such as: AREMA, PMI, AISC, NYSAPLS etc. His technical papers were accepted in multiple ASCE journals and for various publications and conference prcedings for various other organizations like ASCE, AREMA & NYSAPLS.

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*no credit for New York engineers or land surveyors

Federal Land Boundaries and Access Rights

Wednesday, February 7, 2024 | 9:00 am - 4:00 pm CST

Tuition: \$319 per registrant
\$289 for two or more registrants at the same time

Credits: Land Surveyors: 6.0 PDHs* | Professional Engineers: 6.0 PDHs*
Attorneys: 6.0 CLE Hours (CA) (TX), Pending (UT)

Agenda:

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|---|--|
| Bureau of Land Management Lands | <i>J. Barowsky, C. McDonald, D. Ryan</i> |
| The BLM Organization | BLM's Cadastral Survey Program |
| Where to find survey records and information within the BLM | |
| National land ownership datasets | How BLM is using National datasets for mapping |
| The BLM Public Lands Access Database (PLAD) | |

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| National Forest System Lands | <i>N. Price, J. Olson, J. Matthews, R. Ahl</i> |
| National forests and national grasslands overview | |
| Processing Wilderness and WSR packages USFS/BLM roles and responsibilities | |
| TCEMS (Title Claims and Encroachment Management System) overview | |
| ALP (Automated Lands Program) viewer – emphasis on rights-of-way and easements | |

Presented by

Jacob Barowsky works for the Bureau of Land Management and manages their national land surveying services for Federally recognized tribes and is a licensed land surveyor in Alaska, Arizona, Tennessee, and Texas. He has worked as a land surveyor, planner, real estate specialist, and investigator.

Christopher P. McDonald works as the Public Land Survey System Dataset Manger for the Bureau of Land Management Headquarters' Office and a licensed land surveyor in Arizona. He has worked as a Cadastral surveyor, for BLM for over fourteen years plus nine years a private surveyor for Utilities companies, and the private sector.

Dan Ryan started his BLM Career in 2009 as a Realty and Cadastral Aid in Sacramento. He then worked in various field offices, holding positions in the Realty, Minerals, NEPA and Project management programs. He oversees the Land Tenure program for the Northern California Districts where there are over 20 active Land Acquisition cases.

Nathan H. Price is the Chief Land Surveyor at USDA Forest Service Headquarters in Washington D.C. He obtained his MBA degree from Alaska Pacific University, BS degree in Technology Management from Utah Valley University and AAS in Land Surveying from Salt Lake Community College.

Jolene Olson has been a land surveyor in the private sector, the gold mines and with the government for 10 years total; with the USFS for 5 years. She has also worked as an adjunct professor and faculty advisor for land survey student competitions at Great Basin College in Elko, Nevada since 2015.

John Matthews is the USFS Regional Land Surveyor for Region 6 and has been responsible for program development and oversight for the Boundary and Title Management Program in the Pacific Northwest for the last year and a half. Most of his earlier career was spent working in the private and public sector.

Robert Ahl, PhD, GISP works as a Geospatial Systems Specialist in the USDA Forest Service | Lands, Minerals, and Geology | Automated Lands Program. He has applied geographic information systems and remote sensing to assess and model vegetation characteristics, water yield, and wildlife habitat.

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Topographic Surveys, Easements and Original vs. Retracement Surveys

Wednesday, February 21, 2024 | 9:00 am - 4:05 pm CST

Tuition: \$319 per registrant
\$289 for two or more registrants at the same time

Credits: Land Surveyors: 6.0 PDHs* | Professional Engineers: 6.0 PDHs*

Agenda:

- Topographic Surveying**
- Gathering, manipulating and presenting
- Historic practice: leveling
 - Transitional practice: total Stations
 - Modern practice: robot total stations, GPS
 - Benchmark data and standards
 - Drafting/modern CAD techniques
 - Managing topographic information for intended use
 - Samples of Illinois Standards of Practice

Identifying, Classifying and Locating Easements

- What *is* and *is not* an easement
- Creating easements: easements by necessity, easements by use, written easements
- Identifying critical distinctions between easements in gross, easements appurtenant and prescriptive easements
- Maintaining easements
- Knowing when and how to terminate easements
- Obstructing use of easements and determining remedies for obstruction

Comparison between Original Surveys and Retracement Surveys

- The Sermon
- Following in the footsteps
- Legal and historical opinions

Presented by J. Cole Helfrich *Principal Land Surveyor with Koru Group PLLC*

Mr. Helfrich has been principal land surveyor with Craig R. Knoche & Associates, P.C. and its successor Koru Group PLLC in the Chicago area for the last 30 years. Mr. Helfrich first picked up a plumb bob in 1971 for Webster & Associates. From tape-and-transit to GPS, mortgage surveys to shopping centers, he has his seal on billions of dollars of commercial, residential and institutional developments and transactions in 23 counties in Illinois together with consulting and managing projects in 15 other states. 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.

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