

Faculty



Dave Doyle has been engaged in geodetic surveying since his enlistment in the U.S. Army in 1967. In 1972 he joined the National Geodetic Survey and held the position of chief geodetic surveyor for 12 years prior to his retirement in January 2013. Mr. Doyle was responsible for the development, technical design and management of plans and programs that enhanced the United States National Spatial Reference System. During his career his experiences included all phases of geodetic triangulation, astronomic positioning, leveling, GPS data collection, data analysis, datum transformations, network adjustments, data publication and outreach in the form of seminars, workshops, and webinars. Mr. Doyle's efforts also included extensive activities to direct and coordinate the modernization of national geodetic reference frames in countries in Africa, Central, Caribbean and South America, Eastern Europe, and the Pacific. He is a past president and fellow member of the American Association for Geodetic Surveying, and he has served on the U.S. delegation to the International Federation of Surveyors and is an active member of the District of Columbia, Maryland, and Virginia professional surveyors associations.



Brian S. Fisher, PLS is a registered professional land surveyor in Arizona and is a graduate of Arizona's Phoenix College with an A.A.S. degree in Land Surveying. His surveying and construction career began in 1989 with the Naval Mobile Construction Battalion "Seabees". Mr. Fisher's current position is with the Central Arizona Water Conservation District as a geodetic surveyor. During his career he has been the president of a private survey/engineering firm, and adjunct faculty at Arizona's Phoenix College, and he has held numerous project management positions in both the private and public sectors. Mr. Fisher is an active member of several associations including, Arizona Professional Land Surveyors (APLS), Arizona Geographic Information Council (AGIC), National Society of Professional Surveyors (NSPS), and the American Association for Geodetic Surveying (AAGS). He has been the National Geodetic Survey State Geodetic Coordinator for Arizona since 2017.

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GPS and GNSS Technology

Live, Interactive Webinar - Tuesday, June 18, 2024

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Learning Objectives

You'll be able to:

- Review** the history of space-based positioning.
- Explore** contemporary and historic US datums.
- Examine** contemporary GNSS equipment.
- Review** online GNSS services such as OPUS and AUSPOS.
- Consider** the future of GNSS and geodetic systems.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

GPS and GNSS Technology

Live, Interactive Webinar - Tuesday, June 18, 2024



Explore GPS and GNSS technology

Examine contemporary and historic U.S. datums

Learn of practical GNSS positioning procedures, including static and rapid static

Analyze GPS and GNSS surveying processes and best practices

Discover online GNSS services

Discuss the future of GNSS and geodetic systems and examine the significant new State Plane Coordinates planned for U.S. in 2025

Continuing Education Credits

Professional Engineers
6.0 PDHs*

*not approved in NY

Land Surveyors
6.0 PDHs*



Webinar Information

Online - Tuesday, June 18, 2024

Log into Webinar 8:30 - 9:00 am CDT	Break 12:15 - 12:45 pm CDT
Morning Session 9:00 am - 12:15 pm CDT	Afternoon Session 12:45 - 4:00 pm CDT

Tuition
\$339 for individual registration.
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Agenda

- Presented by Dave Doyle and Brian S. Fisher, PLS**
- History of Space-Based Positioning**
- General design of GNSS constellations
 - Fundamental geodetic surfaces, contemporary and historic U.S. datums (ellipsoid, geoid, horizontal and vertical datums, State Plane Coordinates)
 - Outline of contemporary GNSS equipment
 - Practical GNSS positioning procedures (static, rapid static, RTK, RTN)

GPS and GNSS Surveying Processes and Best Practices Including National Geodetic Survey Guidelines for Accurate GNSS Derived Heights (>.05m/.2 ft)

- Online GNSS services (OPUS, AUSPOS etc.)
- Future of GNSS and geodetic systems – GPS III, new horizontal, vertical, and tidal datum changes, significant new State Plane Coordinates planned for U.S. in 2025

Credit Information

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 approved 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 webinar has been registered with the Florida Board of Professional Surveyors and Mappers for 6.0 PDHs. This webinar has been approved by the Missouri Board of APEPLSPLA for 6.0 PDUs for land surveyors.

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 is not pre-approved by any licensing boards and may not qualify for the same credits; please consult your licensing board(s) to ensure that a structured, asynchronous learning format is appropriate.

Additional Learning

- The Art of Retracement for Surveyors**
Online | Thursday, May 16, 2024 | 8:30 am - 4:00 pm CDT
- Credits:** Land Surveyors: 6.0 PDHs | Professional Engineers: 6.0 PDHs
Practicing Institute of Engineering: 6.0 PDHs
- Agenda Topics:**
- The Surveyor's Responsibility – Follow in the Footsteps
 - The Surveyor's Challenges
 - Retracing When There Was No Original Survey
 - Determining the Best Evidence to Rely Upon
 - Explaining/Solving Patent Ambiguities in the Legal Description
 - Explaining/Solving Latent Ambiguities by Exploring and Analyzing Extrinsic Evidence
 - Potential Conflicts Independent of the Resolved Boundary Completing the Survey
- Presented by** Gary Kent *Meridian Land Consulting, LLC*

- Floodplain Modeling, Mapping and Regulation**
Online | Wednesday, May 29, 2024 | 10:00 am - 2:00 pm CDT
Thursday, May 30, 2024 | 10:00 am - 2:00 pm CDT
- Credits:** Land Surveyors: 7.0 PDHs | Certified Planners: CM|7
Professional Engineers: 7.0 PDHs | Architects: 7.0 HSW CE Hours
AIA: 7.0 LU| HSW | Landscape Architects: 7.0 HSW CE Hours
LA CES: 7.0 HSW PDHs | Floodplain Managers: 7.0 ASFPM CECs

- Agenda Topics:**
- Understanding Floods, Floodplains and Floodplain Management
 - Federal, State and Local Floodplain Regulation
 - Examining Flood Insurance and Flood-Related Claims
 - Obtaining and Interpreting Flood Maps
 - Types of Map Changes
 - Modeling Floodplains

Presented by Gene Rovak *Senior Project Manager at Horner & Shifrin, Inc.*
Steve Randolph Assoc. VP, *Regional Manager – Water at Horner & Shifrin, Inc.*

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