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June Land Webinars

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June Land Webinars

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HalfMoon Education Online Learning

June Land Webinars

Trigonometric Tips and Tricks for Surveying

Wednesday, June 7, 2023 | 10:00 am - 1:15 pm CDT

Fundamentals of Geographic Information Systems (GIS) for Engineers & Land Surveyors

Tuesday, June 13, 2023 | 9:30 am - 4:30 pm CDT

State Plane Coordinate System: Transition to NATRF2022

Thursday, June 22, 2023 | 11:00 am - 3:30 pm CDT
Friday, June 23, 2023 | 11:00 am - 3:00 pm CDT

To register, visit us online at www.halfmoonseminars.org

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Trigonometric Tips and Tricks for Surveying

Wednesday, June 7, 2023 | 10:00 am - 1:15 pm CDT (incl. a 15-min break)
Tuition: $159
Credits: Professional Engineers: 3.0 PDHs* Land Surveyors: 3.0 PDHs*

Agenda

Spreadsheet functions, review and introduction.
Unpacking angles to and from DMS, and dealing with negative angles.
Mapping angles from (-180, 180] to [0, 360) without case logic.
Horizontal and vertical collimation error.
The interior angle between two pointings.
Telling left and right apart using coordinates.
Side shot demo

Presented by

Dr. Thomas H. Meyer Ph.D.

Dr. Meyer was awarded a Ph.D. degree from Texas A&M University in College Station, Texas, in 1998, where he was a research associate in the Mapping Sciences Laboratory. He now is a Professor of Geodesy in the Department of Natural Resources and the Environment at the University of Connecticut, where he teaches courses in geomatics, GNSS and plane surveying, geodesy, and geospatial analysis in Python. Dr. Meyer is a member of ASCE and the Connecticut Association of Land Surveyors. He is also a past president of the New England Section of the ACSM and a Fellow and the 2016/2019 president of the American Association for Geodetic Surveying. Dr. Meyer has published an undergraduate textbook on geodesy, numerous peer-reviewed journal articles, and is on the editorial boards of the *Journal of Surveying Engineering* (JSE) and *Surveying and Land Information Science* (SaLIS). He is a regular presenter at national meetings, giving workshops and seminars on numerous topics in geodesy, GNSS, and surveying. His most recent research projects include new formulations of low-distortion projections, and developing spatial statistical animal-movement models for mountain lions, bobcats, and salmon.

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*These programs do not qualify for credit for NY engineers or NY, NJ, or DE land surveyors. See website for complete credit information.

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Fundamentals of Geographic Information Systems (GIS) for Engineers & Land Surveyors

Tuesday, June 13, 2023 | 9:30 am - 4:30 pm CDT (incl. a 30-min break)
Tuition: $319 per registrant, $289 per registrant for two or more
Credits: Professional Engineers: 6.0 PDHs* Land Surveyors: 6.0 PDHs*

Agenda

What is GIS?
GIS definitions and subsystems
Addressing geographic questions
The spatial database

Attribute Data Models
Mapping tabular data
Geocoding locations
Performing spatial queries

Map Presentation
Cartographic symbology principles
Map topology best practices
Vector data categorization

Geoprocessing
Fundamental data manipulation tools
Vector deliverable examples

Software Demo
ArcGIS Pro
QGIS
ArcGIS Online

Raster Data
Working with aerial imagery
Developing digital elevation models
Image classification and change detection
Integrating lidar and other 3D data

Automated Data Processing
Exploring Model Builder
Stacking geoprocessing tasks using Python
Leveraging Python scripts

Field Maps
Using Survey123 for asset management
Seamless integration of Field Maps and ArcGIS Online

StoryMaps
Building websites around geographic events
Creating and presenting engaging geographic stories

Presented by

Jeffrey Miller *Aerial Education*

Mr. Miller is passionate about teaching UAS and geospatial and leverages his experience in his current role as a professor in the Bay Area. Outside of academia, Mr. Miller is a technical trainer and entrepreneur. He started his business, Aerial Education, in 2018 to provide the highest level training and consulting in the drone mapping industry. Mr. Miller's interest in UAS began in 2013 when he started doing research for his master's thesis. His blog, iphonedroneimagery.com, chronicles that research. Mr. Miller is pursuing a Ph.D. degree in Geomatics Engineering at the University of Colorado, Denver.

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State Plane Coordinate System: Transition to NATRF2022

Thursday, June 22, 2023 | 11:00 am - 3:30 pm CDT (incl. a 30-min break)
Friday, June 23, 2023 | 11:00 am - 3:00 pm CDT (incl. a 30-min break)
Tuition: $319 per registrant, $289 per registrant for two or more
Credits: Professional Engineers: 7.5 PDHs* Land Surveyors: 7.5 PDHs*

Agenda Day One

State Plane Coordinate System Fundamentals
Geodetic datum elements
- Reference ellipsoids
- Shape of the earth
- Earth-centered, Earth-fixed cartesian coordinates

North American Datum of 1983 (NAD83)
- Development history
- State and national adjustments

State Plane Coordinate System fundamentals
- Map projection concepts
- Understanding the Lambert Conformal Projection
- Understanding the Transverse Mercator Projection
- Scale factor and elevation factor
- Inherent system distortion

Agenda Day Two

Updating the State Plane Coordinate System
Geoid science
- Ellipsoid height and orthometric height
- Past and future model evolution

North American Terrestrial Reference Frame 2022 (NATRF2022)
- Fundamental changes from NAD83
- Low distortion projections
- National Geodetic Survey goals
- Implementation timeline

Applying NATRF2022 in the land surveying industry

Presented by

Todd Horton, PE, PLS *Meridian Geospatial Consulting, LLC*

Mr. Horton, PE, PLS, is the owner of Meridian Geospatial Consulting, LLC. Serving private firms, state professional associations, and other training providers, he provides technician training and continuing education seminars for the land surveying industry. Mr. Horton was full-time faculty at Parkland College in Champaign, Illinois, for 25 years where he taught land surveying and construction management courses, retiring in 2023. He founded the land surveying degree program at Parkland College in 2001. The Illinois Professional Land Surveyors Association awarded him the Carter Jenkins Distinguished Service Award in 2013. Mr. Horton graduated from the University of Illinois in Civil Engineering. He has participated in planning, design, construction, surveying and maintenance of civil engineering projects including commercial structures, residential subdivisions, airfields, utility systems and highways. He acquired significant public sector experience with the US Air Force and the Illinois Department of Transportation as well as private sector experience with engineering and surveying firms in central Illinois.

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