Learning Objectives

You’ll be able to:

Learn why the state plane coordinate system was developed and how it was designed.

Gain an understanding of the development of individual state systems.

Receive practical guidance on the use of projections in state systems.

Study control survey techniques that can be used to increase accuracy and minimize errors.

Understand how errors do and don’t propagate in survey measurements.

Working with the State Plane Coordinate System and Conducting Control Surveys

Fairfax, VA
Wednesday, March 29, 2017

Learn who developed the state plane coordinate system and why it was developed.

Enhance your understanding of the use of the Lambert Conformal Projection and the Transverse Mercator Projection in state plane systems.

Analyze state plane coordinate system distortions for various states.

Discuss control survey techniques, including GPS static, OPUS static, conventional traverse and conventional leveling.

Learn how to correct for atmospheric conditions that can affect traverse and level data.
Faculty

Alan R. Dragoo is a Licensed Surveyor in the State of Maryland, and was employed for 27 years by the Washington Suburban Sanitary Commission (WSSC) in Laurel, Maryland. He was a geodetic project manager in charge of high precision horizontal and vertical geodetic surveying projects using the Global Positioning System and classical methods in support of the WSSC Control Network, the Interagency GIS System and the deformation studies for three dams. He also worked for Trimble Navigation for eight years as a technical support representative in support of sales for the Northeast U.S. He also worked for Keystone Precision Instruments for eight years as the sales manager for land survey products for Delaware, Maryland and Virginia. He is currently employed by Maser Consulting at their Sterling, Virginia, office as their assistant survey department manager.

Mr. Dragoo worked with the National Geodetic Survey to survey the top of the Washington Monument. He was co-director for the completed survey on the top of the U.S. Capitol to determine its position and in the basement of the U.S. Capitol to locate the cornerstone set in 1792. He is a member and fellow of the National Society of Professional Surveyors, past president for the American Association for Geodetic Surveying (AAGS), past editor for the Geodetic Surveyor newsletter for AAGS, and National Society of Professional Surveyors director for the Maryland Society of Surveyors. Mr. Dragoo was named MSS Surveyor of The Year for 1996, and received the Russell E. Lowman award and Life Time Achievement award in 2015. He was also director for the spring 1996 ASPRS/ACSM Baltimore Convention and director for the spring 1998 ACSM Baltimore Convention.

Mr. Dragoo has authored and co-authored articles and papers for Professional Surveyor magazine, Surveying and Land Information System, a journal for the American Congress on Surveying and Mapping, and society newsletters in the United States and Canada. He has also presented numerous technical sessions and workshops on matters related to geodetic surveying, state plane coordinates, least squares, compatibility of GPS with conventional measurements, Trimble Business Center software, and the sources of errors and their consequences for conventional surveying.

About the Seminar

Hilton Garden Inn Fairfax
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Fairfax, VA 22033
(703) 385-7774

Tuition

$279 for individual registration
$249 for three or more simultaneous registrations.
Each additional registrant is $279 (including shipping).

Registration

Continuing Education Credit Information

This seminar is open to the public and offers 7.0 continuing education hours to professional land surveyors and engineers in most states, including Virginia. Educators and courses are not subject to preapproval in Virginia.

Hilton Garden Inn Fairfax is an approved sponsor for land surveyors in Florida, New York, North Carolina, and North Dakota. Hilton Garden Inn Fairfax is an approved continuing education sponsor for engineers in Florida, Louisiana, Maryland, New Jersey, New York (NYSED No. 35), North Carolina, and North Dakota. The Association of Floodplain Managers has approved this seminar (AM session only) for 3.0 CECs.

Buildings are equipped with fire extinguishers and an emergency evacuation plan is in place. Buildings are accessible to individuals with disabilities.

Registration

Register online at www.halfmoonseminars.org, or call the seminar registration office at (715) 835-5900, or call a customer service representative at (715) 835-5900.

Cancellations: Cancellations must be submitted in writing. Cancellations after the registration deadline will result in a charge for the seminar, and the registration fee will not be refunded. Please refer to the specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Webinar Series

Solar Photovoltaic Project Design and Development

Solar Photovoltaic Project Design and Development, Part I

Wed., February 1, 1:00 PM - 3:15 PM CST

Solar Photovoltaic Project Design and Development, Part II

Thurs., February 2, 11:00 AM - 2:15 PM CST

Green Stormwater Infrastructure and Management

Green Stormwater Infrastructure Practices

Thurs., February 9, 11:00 AM - 1:00 PM CST

Green Stormwater Management Techniques

Fri., February 10, 11:00 AM - 1:00 PM CST

Building Operation & Energy Efficiency

Identifying Energy Efficiency Opportunities in Major Renovations

Thurs., February 16, 11:00 AM - 12:30 PM CST

Integration of “Energy Modeling” in the Design of High Performance Buildings

Thurs., February 16, 1:00 PM - 2:30 PM CST

High Efficiency Building Design Standards

Fri., February 17, 11:00 AM - 12:30 PM CST

Commissioning and Operation of High Performance Buildings

Fri., February 17, 1:00 PM - 3:00 PM CST

Solar Photovoltaic System Design

Design Your Solar Root

Wed., February 8, 11:00 AM - 2:15 PM CST

Community Solar

Wed., February 15, 11:00 AM - 2:15 PM CST

Solar Battery Management Systems

Wed., February 22, 11:00 AM - 2:15 PM CST

Deep Foundations

Deep Foundation Building Site Evaluation

Thurs., February 23, 11:00 AM - 12:30 PM CST

Overview of Deep Foundations

Thurs., February 23, 1:00 PM - 2:30 PM CST

Design and Bearing Capacity of Deep Foundations

Fri., February 24, 11:00 AM - 12:30 PM CST


Fri., February 24, 1:00 PM - 3:00 PM CST

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Tuition

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