

Agenda

Presented by George Lueck, P.E.

Design Guidelines

- Application of design guidelines
- Highway functions
- Selection of design controls and criteria

Traffic Characteristics

- Volume, directional distribution, speed and composition of traffic
- Projection of future traffic demands

Access Control, Management and Safety

- Methods and benefits of controlling access
- Economic analysis
- Key factors related to traffic crashes

Preliminary Survey

- Responsibilities of surveyor, type and order of surveys
- Establishment of right-of-way and roadway alignment
- Drainage areas and utility considerations

Schematic Design

- Purpose, need and requirements for schematics
- Data collection and route studies
- Geometric layout

Project Planning, Public Involvement and Environmental Studies

- Types of environmental studies
- Project planning and topic outline

Determination of Right-of-Way

- Roadway typical section, profile grades, public utility space and drainage easements

Typical Sections

- Purpose, definitions and types
- Pavement design

Horizontal Alignment

- Maximum curvature
- Stopping sight, passing sight and decision sight distance

Vertical Curve

- Terrain, grades, and super-elevation
- Combination of horizontal and vertical alignment

Cross Sections and Earthwork

- Traveled way
- Lane widths, shoulders, clear zones, curbs, and retaining walls

Basic Hydraulic Design Considerations

- Hydrology
- Channels, culverts, bridges and storm drains
- Pedestrian and bicycle facilities

Intersections

- Types and examples of intersections
- Design considerations

Best Practices

Roadway Design

Live, Interactive Webinar - Monday, February 28, 2022

NON-PROFIT
U.S. POSTAGE PAID
EAU CLAIRE, WI
PERMIT NO. 2016

HalfMoon Education Inc.
PO Box 278
Altoona, WI 54720-0278



Learning Objectives

You'll be able to:

Consider highway functions and traffic characteristics when designing roadways.

Explore roadway design guidelines.

Conduct preliminary surveys and learn about schematic design.

Determine rights-of-way and create typical roadway sections.

Discuss horizontal alignment and vertical curves.

Explore earthwork and basic hydraulic design considerations.

Examine different types of intersections, and review design considerations.



HalfMoon Education Live Webinars

Roadway Design

Live, Interactive Webinar - Monday, February 28, 2022



Explore design guidelines and traffic characteristics

Examine access control, management and safety

Study establishment of right-of-way, roadway alignment and pavement design

Learn about project planning, public involvement and environmental studies

Review basic hydraulic design considerations, types of intersections and best practices

Continuing Education Credits

Professional Engineers
6.5 PDHs
(NY Pending)

Certified Planners
CM | 6.5



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG

Faculty

George Lueck, P.E., has 17 years of experience with the Texas Department of Transportation (TxDOT). He started his career performing design and surveying for a variety of roadway projects ranging from farm-to-market roads, to urban roadways and high-design speed facilities in the Waco district. He later transferred to the construction division, where he provided oversight to statewide districts in the areas of construction project management, construction engineering, inspection and contract claims. After serving in this capacity for over nine years, he transferred to the transportation planning division. As assistant director of Traffic Analysis, he oversaw transportation data collection and reporting, corridor-level plans, and travel demand modeling. He then served the City of Killeen for 11 years as assistant city engineer and director of transportation. He had oversight of all operation of the city's transportation system. He was also charged with ensuring that the city's transportation system was planned, constructed and maintained in a cost-effective manner to effectively address the region's growing safety, mobility and reliability needs.

Webinar Information

Log into Webinar 8:00 - 8:30 am CST	Break 12:00 - 1:00 pm CST
Morning Session 8:30 am - 12:00 pm CST	Afternoon Session 1:00 - 4:30 pm CST

Tuition

\$289 for individual registration
\$239 for three or more registrants from the same company at the same time.
Included with your registration: PDF seminar manual.

How to Register

- Visit us online at www.halfmoonseminars.org
- Mail-in or fax the attached form to 715-835-6066
- Call customer service at 715-835-5900

Webinars are presented via GoToWebinar. Instructions and login information will be provided in an email sent close to the date of the webinar. For more information, please visit our FAQ section of our website, or visit www.gotowebinar.com.

Cancellations: Cancel at least 48 hours before the start of the webinar, and receive a full tuition refund, minus a \$39 service charge for each registrant. Cancellations within 48 hours will receive a credit toward another webinar or the self-study package. You may also authorize another person to take your place.

Additional Learning

2021 International Property Maintenance Code

- Wed, Feb 2, 2022 | 9:00 am - 4:00 pm CST

How to Identify Soil Types

- Tues, Feb 8, 2022 | 10:00 am - 12:00 pm CST

Practical Fluid Mechanics

- Tues, Feb 8, 2022 | 8:30 am - 3:30 pm CST

Estimating the Cost of Sitework

- Wed, Feb 9, 2022 | 7:30 am - 3:30 pm CST

Construction Contract Workshop

- Thurs, Feb 10, 2022 | 9:00 am - 5:00 pm CST

Pumping and Piping Systems

- Thurs, Feb 10, 2022 | 11:00 am - 2:15 pm CST
- Fri, Feb 11, 2022 | 11:00 am - 2:15 pm CST

Project Management for Engineers

- Fri, Feb 11, 2022 | 8:30 am - 5:00 pm CST

Drones in Construction

- Wed, Feb 16, 2022 | 8:30 am - 4:30 pm CST

Threats to Trees: Tree Health for Design Professionals

- Thurs, Feb 17, 2022 | 8:30 am - 4:30 pm CST

Fire-Resistant Landscapes and Construction

- Fri, Feb 18, 2022 | 10:00 am - 5:00 pm CST

The Impact of Geosynthetics on Site Design

- Tues, Feb 22, 2022 | 10:00 am - 12:00 pm CST

Deep Dive into Concrete and Rigid Pavements for Streets, Roads & Parking Areas

- Tues, Feb 22, 2022 | 2:00 - 4:00 pm CST

Slope Stabilization and Landslide Prevention

- Wed, Feb 23, 2022 | 8:30 am - 5:00 pm CST

How to Use Berms and Swales for Stormwater Infiltration

- Thurs, Feb 24, 2022 | 9:00 - 11:00 am CST

Soils in Construction

- Thurs, Feb 24, 2022 | 12:00 - 4:00 pm CST
- Fri, Feb 25, 2022 | 12:00 - 4:00 pm CST

For more information and other online learning opportunities visit: www.halfmoonseminars.org

Continuing Education Credit Information

This webinar offers 6.5 PDHs to professional engineers in most states. Approval is pending for professional engineers in New York via the Practicing Institute of Engineering.

HalfMoon Education is an approved continuing education sponsor for engineers in Florida (Provider No. 0004647), Indiana (License No. CE21700059), Maryland, New Jersey (Approval No. 24GP00000700) and North Carolina (S-0130). Other states do not preapprove continuing education providers or courses. HalfMoon Education is not seeking course approval in New York.

HalfMoon Education is an approved CM Provider with the American Planning Association. This course is registered for CM | 6.5 for Certified Planners.

Completion certificates will be awarded to participants who complete this event, respond to prompts and earn a passing score (80%) on the quiz that follows the presentation (multiple attempts allowed).

Can't Attend? Order the Webinar as a Self-Study Package!

Recordings of this webinar are available for purchase. See registration panel for more information and please refer to specific state licensing rules or certification requirements to determine if this learning method is eligible for continuing education credit.

Registration

Roadway Design

Live, Interactive Webinar - Monday, February 28, 2022

How to Register		Registrant Information Name: _____ Company/Firm: _____ Address: _____ City: _____ State: _____ Zip _____ Occupation: _____ Email: _____ Phone: _____ Additional Registrants: Name: _____ Occupation: _____ Email: _____ Phone: _____ Name: _____ Occupation: _____ Email: _____ Phone: _____ Email address is required for credit card receipt, program changes, and notification of upcoming seminars and products. Your email will not be sold or transferred. () I need special accommodations. Please contact me.
Online: www.halfmoonseminars.org		
Phone: 715-835-5900		
Fax: 715-835-6066	Code:	
Mail: HalfMoon Education Inc., PO Box 278, Altoona, WI 54720-0278		
Complete the entire form. Attach duplicates if necessary.		

Tuition

- () **I will be attending the live webinar.** Single Registrant - **\$289.00**. Three or more registrants from the same company registering at the same time - **\$239.00** each.
- () **I am not attending.** Please send me the webinar recording:
- ☐ Streamable MP4 Video/PDF Manual for **\$299.00**.
- ☐ USB Video/PDF Manual for **\$299.00**.

Checks: Make payable to HalfMoon Education Inc.

Credit Card: *Mastercard, Visa, American Express, or Discover*

Credit Card Number: _____

Expiration Date: _____ CV2 Code: _____

Cardholder Name: _____

Billing Address: _____

City: _____ State: _____ Zip: _____

Signature: _____

Email: _____