

Agenda

Benefits of 4th Generation Technology vs. Traditional Erosion Control & Revegetative Practices *D. Land*

Seed selection for revegetation
Soil biotic additives
Cost effective topsoil alternatives
Dust control
Hydraulic erosion control vs traditional blankets/mats

Considering the Impact of Soils and Landforms *M. Silvestre*

Understanding the role of soils
Soil characteristics, classification and engineering properties
Identifying the underlying geological conditions
Understanding the watershed
Considering site topography: high points, low points and plane surfaces

Site Engineering for Stormwater Management and Erosion Control *V. Seaman*

Reviewing state and local regulations
Drainage systems
Sediment traps and basins
Buffer zones Slope stabilization
Establishing proper building material handling and storage
Establishing equipment/vehicle fueling and maintenance practices

Design and Construction of Asphalt Parking Lots in Oklahoma *C. Lynn*

Design considerations
 Drainage
 Subgrade
Construction recommendations
Quality assurance
 Porous pavement

Site Grading *B. Kmita*

Grading for roads, sidewalks and paths
Grading for stairs and ramps
Grading for retaining walls
Grading slopes

Stormwater Runoff & Overland Flow *R. Flanagan*

Natural & developed stormwater overland flow
Stormwater law
No adverse impact

Practical Site Engineering: Science and Techniques
Tulsa, OK - Friday, July 13, 2018



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Learning Objectives

You'll be able to:

Get tips on new techniques for erosion control, including revegetation and hydraulic erosion control.

Discuss soil characteristics, classification and engineering properties.

Examine site engineering for stormwater management.

Explore the design and construction of asphalt parking lots, including the use of porous pavement.

Examine site grading for roads, sidewalks and paths.



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Understand the role of soils and identify underlying geological conditions

Review state and local regulations for stormwater management and erosion control

Explore design considerations for asphalt parking lots

Examine the process of site grading, including grading for stairs and ramps

Learn about natural and developed stormwater overland flow

Continuing Education Credits

Architects
7.0 HSW CEUs/CE Hours
7.0 AIA HSW Learning Units

Landscape Architects
7.0 CEUs/CE Hours
7.0 LA CES HSW PDHs

Professional Engineers
7.0 PDHs

Floodplain Managers
7.0 ASFPM CECs
Contractors
Non-Credit Continuing Ed.



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Faculty

David Land *Owner of Tulsa Landscape, Tulsa*
Mr. Land began working in landscaping with his Texas Irrigator license during his college years at Texas A&M. He graduated with a bachelors degree in Business Administration in 1979. In 1983, Mr. Land moved to Tulsa to purchase Tulsa Landscape. Since then he has been the sole owner and operator. Tulsa Landscape has completed commercial and residential landscaping projects all over the state. He has a thorough understanding of Oklahoma's landscape challenges, allowing him to recommend and provide customers excellent expertise landscape and hardscape materials/products.

Marco Silvestre, P.E.
Regional Vice President, Building and Earth Sciences, Tulsa
Mr. Silvestre holds a professional engineer (P.E.) license in both Oklahoma and Arkansas. Originally from The Netherlands, he attended the Delft University of Technology, majoring in Engineering Geology. Mr. Silvestre oversees geotechnical, environmental and construction testing services for the Oklahoma and Arkansas branch offices. His day-to-day responsibilities involves leading and directing branch managers toward implementing corporate safety policies, providing professional engineering oversight, mentoring and developing leadership and implementing the company's vision, mission and overall direction.

Vernon Seaman *Manager of the Environmental and Energy Planning division at INCOG*
INCOG is a council of governments which includes five counties, aproximately 50 cities and towns and two Indian nations. Previously Mr. Seaman was INCOG's senior environmental planner,

and he has spent the past 11 years working on environmental issues including water quality, water supply, stormwater and air quality, as well as energy and alternative fuels projects. Before joining INCOG, Mr. Seaman worked for 20 years in environmental analytical laboratories in Oklahoma focusing on environmental issues and problem resolution. He earned his B.S. degree in biology from St. Ambrose University in Davenport, Iowa.

Cynthia Lynn *President, Thunderhead Testing, LLC, Bixby*
Ms. Lynn is an established entrepreneur having launched Thunderhead Testing, LLC, in 2000 as a platform from which to provide data management services for the Pavement Test Track facility of the National Center of Asphalt Technology at Auburn University. A respected authority in asphalt technology, mixture design and testing, she currently serves as president of the firm. Her areas of technical competence include aggregate and asphalt testing. Prior to forming Thunderhead, Ms. Lynn held various technical positions with Pavement Technology, Inc., Atlanta Testing and Engineering, and the National Center for Asphalt Technology at Auburn University where she earned her M.S. degree in Civil Engineering in 1996. Her published research accomplishments include evaluation of steel and chrome slag aggregates for use in bituminous mixtures and characterization of aggregate materials for use in bituminous mixtures. Ms. Lynn also holds B.S. degrees in Civil Engineering and Engineering Science from Tennessee Technological University (1993) and David Lipscomb University (1991) respectively.

Brad Kmita *Project Manager at Jonesplan Construction, LLC*
Mr. Kmita has been with Jonesplan since 2009 taking part in all

aspects of the company. Jonesplan Construction is a specialty contractor emphasizing heavy landscape construction, including the construction of golf courses, parks and recreational spaces, athletic fields, site and exterior improvements, and water features. The firm also provides construction management services. Mr. Kmita manages projects starting with meeting with the project team consulting on means and methods, assisting with the pre construction team, managing the project through completion concentrating on quality control, and closing out the project with proper documentation and client follow up. He earned his bachelor's degree from Oklahoma State University and continues to serve on the Landscape Management Professional Advisory Committee.

Ronald D. Flanagan *Principal Planner of Flanagan & Associates, LLC, Certified Floodplain Manager, Tulsa*
Flanagan & Associates, LLC, is a land-use planning consulting firm. Founded in 1969, it has specialized in urban floodplain and stormwater management since 1973. Mr. Flanagan has always been a leader in innovative floodplain management concepts. He was the planner for Tulsa's first master drainage plan, Vensel Creek, completed in 1976. Mr. Flanagan has worked as a consultant with Tulsa's national award-winning stormwater management program for over 25 years. He is past president of the Oklahoma Floodplain Managers Association (OFMA). Mr. Flanagan has been the recipient of FEMA's "Outstanding Public Service Award", OFMA's "Outstanding Achievement Award" and the American Planning Association's "Comprehensive Planning Award."

Seminar Information

Marriott Tulsa Hotel Southern Hills
1902 East 71st Street
Tulsa, OK 74136
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Tuition
\$279 for individual registration
\$259 for three or more registrations.
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Continuing Education Credit Information

This seminar is open to the public and offers 7.0 HSW CEUs/ continuing education hours to architects and landscape architects and 7.0 PDHs to professional engineers in most states, including Oklahoma. Educators and courses are not subject to preapproval in Oklahoma.

This seminar is approved by the American Institute of Architects for 7.0 HSW Learning Units (Sponsor No. J885) and by the Landscape Architecture Continuing Education System for 7.0 HSW PDHs. Only full attendance can be reported to the AIA/CES and LA/CES.

HalfMoon Education is deemed an approved architect and landscape architect continuing education sponsor in New York. HalfMoon Education is an approved continuing education sponsor for engineers in Florida, Indiana, Maryland, New Jersey (Approval No. 24GP00000700), New York (NYSED Sponsor No. 35), North Carolina, and North Dakota.

The Association of State Floodplain Managers has approved this event for 7.0 CECs.

This seminar also offers building contractors a non-credit continuing education opportunity; it has not been approved in any state with a continuing education requirement for contractors.

Attendance will be monitored, and attendance certificates will be available after the seminar for most individuals who complete the entire event. Attendance certificates not available at the seminar will be mailed to participants within fifteen business days.

Additional Learning

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National Electrical Code: Onsite Power Generation and Distribution

- **National Electric Code: Onsite Power Generation and Distribution Part 1**
Weds., June 6, 2018, 11:00 AM - 2:15 PM CDT
- **National Electric Code: Onsite Power Generation and Distribution Part 2**
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Registration

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- () **I will be attending the live seminar.** Single Registrant - **\$279.00**. Three or more registrants from the same company registering at the same time - **\$259.00** each.
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