

Agenda

Presented by Dr. Jose G. Vasconcelos

**Rain Garden Functions,
Environmental Benefits and Landowner Benefits**

- Understanding hydrology, water resources and water quality
- Overview of stormwater regulations and infrastructure
- What a rain garden is and does
- What a rain garden does not do

Rain Garden Siting and Sizing

- Topography and soils
- Proximity to structures, vegetation and traffic
- Calculating the amount of water to be drained
- Sizing the rain garden

Rain Garden Design

- Size, shape and orientation
- Site preparation
- Berms, planting beds and ponding areas

Rain Garden Plant Selection

- Grasses
- Sedges
- Flowers and pollinator habitat
- Trees and shrubs
- Planting the garden

Adding Amenities

- Paths and walkways
- Fences and benches
- Integrating the rain garden with other landscape features

Maintaining Rain Gardens

Can't Attend? Order the Webinar as an On-Demand Package!

Recordings of this webinar are available for purchase. See course listing online 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.

**Rain Garden Design,
Construction and Maintenance**
Live, Interactive Webinar - Thursday, May 30, 2024

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:

Review stormwater regulations and discuss the role of rain gardens in stormwater management.

Explore site topography and soils, and get tips on sizing rain gardens.

Discuss design criteria for rain gardens.

Select plants for rain gardens, including grasses, sedges, flowers, trees and shrubs.

Add paths, walkways and benches.

Get tips on maintaining rain gardens.



HalfMoon Education Inc.,
Your LIVE Education Leader Presents

Rain Garden Design, Construction and Maintenance

Live, Interactive Webinar - Thursday, May 30, 2024



Identify environmental functions and benefits of rain gardens

Get tips on rain garden siting and sizing

Discuss berms, planting beds and ponding areas

Select plants, including grasses, sedges, flowers and trees

Add amenities and integrate rain gardens with other landscape features

Continuing Education Credits

Professional Engineers

6.0 PDHs

Architects

6.0 HSW CE Hours

6.0 AIA LU | HSW

Landscape Architects

6.0 HSW CE Hours

6.0 LA CES HSW PDHs

Floodplain Managers

6.0 ASFPM CECs



HalfMoon Education Inc.
WWW.HALFMOONSEMINARS.ORG

Webinar Information

Online - Thursday, May 30, 2024	
Log into Webinar	Break
8:30 - 9:00 am CDT	12:15 - 12:45 pm CDT
Morning Session	Afternoon Session
9:00 am - 12:15 pm CDT	12:45 - 4:00 pm CDT

Tuition
\$339 for individual registration.
\$309 for two 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
 - 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 on-demand package. You may also authorize another person to take your place.

Learn More and Register:
www.halfmoonseminars.org
Customer Service (715) 835-5900 Ext. 1

or scan here



Can't Attend? Order the Webinar as an On-Demand Package!
Recordings of this webinar are available for purchase. See details online 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.

Faculty

Dr. Jose G. Vasconcelos is a professor in the Water Resources Group of the Department of Civil and Environmental Engineering at Auburn University. He obtained his BS degree in Civil Engineering (1995) and his MS degree in Environmental Technology and Water Resources (2000) at the University of Brasilia, Brazil. His PhD degree was obtained in 2005 at the University of Michigan, Ann Arbor. In the past he held a professor appointment at the University of Brasilia (2006-2009), and prior to this was an employee in the area of water resources at the waterworks authority in Brasilia (CAESB, 1999-2006), and prior to that at Brazil Federal District's urban infrastructure company (NOVACAP, 1996-1999). His research interests include unsteady/multiphase flows, urban water infrastructure, headwater watersheds, interactions between surface water, and groundwater flows. Applications of his research include understanding operational issues and behavior of hydraulic systems in extreme flow conditions, often caused by extreme rainfall and urbanization. His techniques includes on laboratory investigations, numerical modeling development and field work research. He serves as an associate editor of the *ASCE Journal of Hydraulic Engineering*, *MDPI Water* and *CHI Journal of Water Management Modeling*. He also serves as chair of the ASCE-EWRI Two-phase Flows in Urban Water Systems, and past chair for Hydraulic Structures Committee. Dr. Vasconcelos serves as reviewer for various journals in the area of hydraulics, fluid mechanics, and water resources. As a consultant, he has contributed toward the design of several hydraulic systems, including the Washington DC Anacostia Tunnel and London's Thames Tidewater Tunnel. Dr. Vasconcelos published 58 articles in peer-reviewed journals, 16 chapters in peer-reviewed books and monographs, over 70 papers in international conferences and meetings, among other types of creative production. He advised five PhD Students, 22 MS students, and served in various graduate students committees. During his career, Dr. Vasconcelos was the recipient of the 2022 Outstanding Associate Editor Award, by the Environmental and Water Resources Institute, American Society of Civil Engineers; the 2018 Telford Premium by the Institution of Civil Engineers, UK; and and the 2014 James M. Robbins National Excellence in Teaching Award by Chi Epsilon, among other distinctions. He serves as one of the advisors for the Auburn University student chapter of Engineers Without Borders, having developed drinking water systems in Rwanda and Guatemala.

Additional Learning

- FEMA Floodplain Letters of Map Change Explained**
- Wednesday, May 8, 2024 | 9:00 am - 1:30 pm CDT
- Handling Ethical Issues in Construction Contracting**
- Wednesday, May 8, 2024 | 9:00 - 10:00 am CDT
- Hydrology and Hydraulics for Municipal Stormwater Engineering**
- Thursday, May 9, 2024 | 9:00 am - 4:30 pm CDT
- 2021 International Building Code Essentials**
- Friday, May 10, 2024 | 8:30 am - 4:30 pm CDT
- Urban Stormwater Management System Design and Construction**
- Friday, May 10, 2024 | 8:30 am - 4:30 pm CDT

Credit Information

This webinar is open to the public and is designed to qualify for 6.0 PDHs for professional engineers, 6.0 HSW continuing education hours for licensed architects, and 6.0 HSW continuing education hours for landscape architects in all states that allow this learning method. 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 deemed an approved continuing education sponsor for New York engineers and architects via its registration with the American Institute of Architects Continuing Education System (Regulations of the Commissioner §68.14(i)(2) and §69.6(i)(2)). Other states do not preapprove continuing education providers or courses.

The American Institute of Architects Continuing Education System has approved this course for 6.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The Landscape Architecture Continuing Education System has approved this course for 6.0 HSW PDHs. Only full participation is reportable to the LA CES.

This Association of State Floodplain Managers has approved this course for 6.0 CECs for floodplain managers.

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. The following pre-approvals may be available for the on-demand format upon request:
6.0 HSW LUs (AIA), 6.0 HSW PDHs (LA CES), 6.0 ASFPM CECs

- Protecting Tree Diversity**
- Friday, May 10, 2024 | 1:00 - 4:00 pm CDT
- Building Electrical System Design Based on NEC 2023**
- Monday, May 13, 2024 | 12:00 - 2:00 pm CDT
- Temporary Construction Site Erosion and Sediment Control BMPs**
- Monday, May 13, 2024 | 9:00 am - 4:00 pm CDT
- Techniques to Promote Groundwater Conservation**
- Monday, May 13, 2024 | 9:00 am - 4:30 pm CDT

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