

Credit Information

Organic Waste Composting

This webinar is open to the public and is designed to qualify for 6.5 PDHs for professional engineers and 6.5 HSW continuing education hours for landscape architects in most 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. 24GP00049300) and North Carolina (S-0130). HalfMoon Education is deemed an approved continuing education sponsor for New York engineers and landscape architects via its registration with the Landscape Architecture Continuing Education System (LA/CES). Other states do not preapprove continuing education providers or courses.

The Landscape Architecture Continuing Education System has approved this course for 6.5 HSW PDHs. Only full participation is reportable to the LA CES.

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

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: 6.5 HSW PDHs (LA CES)

Introduction to HEC-HMS Modeling

This webinar is open to the public and is designed to qualify for 7.0 PDHs for professional engineers and 7.0 HSW continuing education hours for landscape architects in all states that allow this learning method. Please refer to specific state rules to determine eligibility.

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The Landscape Architecture Continuing Education System has approved this course for 7.0 HSW PDHs. Only full participation is reportable to the LA CES.

This webinar has been approved by the Association of State Floodplain Managers for 7.0 CECs for floodplain managers.

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Live, Interactive Webinars

- Organic Waste Composting
- Introduction to HEC-HMS Modeling

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Live, Interactive Webinars

Organic Waste Composting

- Monday, November 18, 2024 | 9:00 am - 4:30 pm CST

Introduction to HEC-HMS Modeling

- Friday, November 22, 2024 | 9:00 am - 5:00 pm CST

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Organic Waste Composting

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Credits: Professional Engineers: 6.5 PDHs
Landscape Architects: 6.5 HSW CE Hours | LA CES: 6.5 HSW PDHs
Certified Planners: CM|6.5



Introduction to HEC-HMS Modeling

Friday, November 22, 2024 | 9:00 am - 5:00 pm CST

Credits: Professional Engineers: 7.0 PDHs
Landscape Architects: 7.0 HSW CE Hours | LA CES: 7.0 HSW PDHs
Floodplain Managers: 7.0 ASFPM CECs

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Organic Waste Composting

Monday, November 18, 2024 | 9:00 am - 4:30 pm CST

Tuition: \$339 per registrant
\$237 per attendee for group registrations of two or more people registering at the same time for the same program. ***That's a savings of 30 percent!***

Credits: Professional Engineers: 6.5 PDHs
Landscape Architects: 6.5 HSW CE Hours | LA CES: 6.5 HSW PDHs
Certified Planners: CM | 6.5

Agenda:
Understanding the “Market” for Organic Waste Composting Programs

- Organic waste in United States (including food waste), sources, destinations, and amounts
- Types of organics programs (from backyard to centralized operations)
- Collection of organics and pre- and post-consumer food waste
- Overview of compost product markets
- Costs and benefits of organic waste composting

Addressing Financial and Regulatory Hurdles

- Financing mechanisms available
- Complying with zoning, land use, and health regulations
- State rules and local ordinances
- State and local organics diversion policies

Understanding the Science and Art of Composting

- The composting process
- Microorganisms and their role in composting
- Key process variables
- Feedstocks and recipe development

Composting Facilities

- Composting methods and equipment
- Siting operations and permitting
- Design considerations
- Process controls and compost quality
- Compost markets

Presented by
Jorge Montezuma, P.E. *Principal Consultant/Owner, Wanu Organics PLLC*
Mr. Montezuma leads Wanu Organics PLLC, a consulting firm focused on organic waste recycling and composting, working with clients to develop and improve programs and infrastructure. Before Wanu, Mr. Montezuma led the engineering team for Atlas Organics, overseeing design, permitting, compliance, and technical assistance for 13 composting operations across seven states. He has worked on more than 30 and visited over 100 small and large composting operations across the country. Mr. Montezuma served on US Composting Council (USCC) and North Carolina Composting Council Board of Directors and was an active member of the California and Maryland/ DC USCC state chapters. He participated in the development of the USCC Model Zoning Template and Guidelines and is a contributor to *BioCycle* magazine. Mr. Montezuma has trained composting professionals through the North Carolina Compost Operations Training Course. He is also a USDA-APHIS composting subject matter expert assisting in emergency animal mortality events. Mr. Montezuma holds a B.S. degree in Environmental Engineering from Cal Poly, San Luis Obispo and a Master’s degree in Agricultural and Biological Engineering from North Carolina State University. He is a licensed professional engineer in North Carolina, South Carolina, Maryland, Florida and Colorado and lives in Hillsborough, NC.

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Agenda:
Applications for Hydrologic Analysis

- Watershed studies
- Stormwater management
- Regional flood models
- Stream flow assessment

Hydrologic Principles

- Hydrologic Cycle
- Watershed delineation methodology
- Hydrographs
- Rational Method
- SCS Methods

History and Development of US Army Corps HEC-HMS Software

HEC-HMS Application User Interface

- Program file and project management
- Data entry and editing

Building a Small-Scale Watershed Model

- Data required
- GIS data usage
- Model setup
- Analysis requirements

Model Output and Troubleshooting

- Results and reporting
- Mapping capabilities
- Results interpretation
- Calibration
- Troubleshooting tips

Demonstration of Small Watershed Model

- Live demonstration of a small-scale HMS model

Building a Large-Scale Watershed Model

- Data required
- GIS data usage
- Model setup
- Analysis requirements
- Modeling tips

Demonstration of Larger Watershed Model

- Live demonstration of a larger scale HMS model

Other Applications in HEC-HMS

- Dam breach analysis
- Irrigation design
- Stormwater routings
- Urban flood studies

Credits: Professional Engineers: 7.0 PDHs
Landscape Architects: 7.0 HSW CE Hours | LA CES: 7.0 HSW PDHs
Floodplain Managers: 7.0 ASFPM CECs

Presented by
Mary L. Paist-Goldman, P.E. *Principal and Owner of Rippled Waters Engineering, LLC*
Ms. Paist-Goldman has more than 20 years of experience in water resource engineering with a particular focus in stream and wetland restoration and mitigation design. She is the principal and owner of Rippled Waters Engineering, LLC, based in New Jersey. Her firm specializes in water resources engineering services for a variety of projects. Prior to starting Rippled Waters in 2018, she served for many years as principal engineer and director of Engineering Services of a Mid-Atlantic regional natural resources firm. She is an experienced modeler and has worked extensively on design and analysis using a variety of hydrologic and hydraulic programs including HEC-HMS, HEC-RAS, and HydroCAD. Applications for her hydraulic modeling expertise include wetland restoration and mitigation; stream restoration; bridge repair and replacement; and dam repair, replacement, and removal. Specifically related to riverine systems, Ms. Paist-Goldman has extensive expertise with stream restoration, large woody debris, natural channel design and bioengineering stabilization techniques. Ms. Paist-Goldman has designed restoration projects of all sizes ranging from a few hundred feet to several miles of stream. These projects are planned for use as mitigation banks or serve as mitigation for development onsite. Working closely with restoration ecologists and landscape architects, Ms. Paist-Goldman has designed a variety of stream and wetland habitats including creation, enhancement, restoration, and preservation with a focus on sustainability and regulatory compliance.



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