

Credit Information

Decentralized Onsite Wastewater Treatment Systems: Ongoing Innovation for the 21st Century

This webinar offers 7.0 PDHs to professional engineers and 7.0 HSW continuing education hours to architects licensed in all states.

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). 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 7.0 LU | HSW (Sponsor No. J885). Only full participation is reportable to the AIA CES.

The International Code Council has approved this event for .65 CEUs in the specialty area of Sitework (Preferred Provider No. 1232).

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).

New Developments in Small Wind Energy Systems

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The International Code Council has approved this event for .6 CEUs in the specialty area of Energy (Preferred Provider No. 1232).

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 each 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.

Live, Interactive Webinars

- Decentralized Onsite Wastewater Treatment Systems:
Ongoing Innovation for the 21st Century
- New Developments in Small Wind Energy Systems

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Live, Interactive Webinars

Decentralized Onsite Wastewater Treatment Systems: Ongoing Innovation for the 21st Century

- Tuesday, April 26, 2022 | 8:30 am - 5:00 pm CDT

New Developments in Small Wind Energy Systems

- Thursday, April 28, 2022 | 8:30 am - 3:30 pm CDT

To register, view detailed presenter biographies,
and see other learning opportunities, please visit:

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Decentralized Onsite Wastewater Treatment Systems: Ongoing Innovation for the 21st Century

Tuesday, April 26, 2022 | 8:30 am - 5:00 pm CDT (incl. a 60-min break)

Tuition: \$319 per registrant, \$289 per registrant for two or more

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Agenda

Overview of Public Health and Environmental Issues

Decentralized systems

Overview of Rules, Regulations, Codes, Permitting Procedures and Voluntary Certification Systems (LEED)

The Beginning of the Process or the Essential Elements

Planning phase

Site evaluation phase

Wastewater Treatment Processes Utilized In Decentralized Applications

Simple septic tank to the advanced biological

Filtration and disinfection options

Natural Wastewater Treatment Processes

Media filters and constructed wetlands

Soil Based Systems to Receive Treated Water

Conventional subsurface system to sophisticated surface irrigation technology

Management Approaches to Insure Proper Performance

Visions for the Future

Where is decentralized water management headed

How does the USEPA Water Reuse Action Plan mesh with decentralized infrastructure

Closing Comments

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AIA: 6.0 LU|HSW International Code Council: .6 CEUs (Energy)

Agenda

Development of the Distributed Wind Sector

Definition of distributed wind

Benefits of distributed wind

Integration with other renewables

Grid modernization

Small Wind Certification

AWEA Standard 9.1

ICC Small Wind Certification Council (ICC-SWCC)

- Small wind turbine standard

- Medium wind turbine standard

Distributed Wind Competitiveness Improvement Project (CIP)

National Renewable Energy Laboratory's distributed wind CIP mission

Small wind turbine cost-cutting score

CIP small turbine cost-cutting score

Focus on firms and turbines funded by CIP cost-sharing program

Developments in Turbine Technology

Blade size and tower height

Increases in energy production

Assembly and construction

Developments in Inverters, Batteries and Other Related Technologies

Smart inverters

Improvements in battery storage and distribution

Anticipated Developments under Infrastructure Investment and Jobs Act

Important provisions for the energy industry

Funds and grants

Potential implementation

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Added Value:

Enhance your learning - a recording of this webinar will be available for attendees to stream online for two weeks after the program date. (live webinar attendance required to receive credit)

Faculty

Decentralized Onsite Wastewater Treatment Systems: Ongoing Innovation for the 21st Century

Robert Rubin *A.R. Rubin and Associates in Pittsboro, North Carolina*

Dr. Rubin is an emeritus professor in the Biological and Agricultural Engineering Department at North Carolina State University. He has published in scientific journals and popular press on issues related to wastewater and biosolids treatment, solid waste management, stormwater management and ISO 14000 environmental management systems addressing the animal industry. Dr. Rubin was a visiting scientist at the U.S. Environmental Protection Agency (EPA) in Washington D.C. from 1999 through 2005. He was active in development of guidelines for wastewater and biosolids management at USEPA. Dr. Rubin is currently president of A.R. Rubin and Associates, a consulting firm dedicated to evaluation and assessment of sustainable resource management and recovery solutions.

New Developments in Small Wind Energy Systems

Michael Bergey *President & CEO, Bergey Windpower Co.*

A co-founder of Bergey Windpower Co. and its president since 1987, Mr. Bergey is a mechanical engineer (Univ. of Oklahoma) and an internationally recognized expert in the fields of small wind systems, distributed generation, and green telecom. He has twice served as president of the American Wind Energy Association (AWEA) and served on the AWEA Board of Directors from 1981 to 2007. Mr. Bergey chaired the AWEA Small Wind Turbine Committee for more than 20 years and authored AWEA's 2002 U.S. Small Wind Turbine Industry Roadmap: A 20-year Industry Plan for Small Wind Technology. In 1994 he was recognized as the "Wind Industry Man of the Year" by AWEA. He is the recipient of the 2012 Small Wind Conference "Wind Advocate Award". In 1981 Mr. Bergey was recognized by AWEA for development of the "AWEA Performance Rating Standard", which was the basis for the IEC 61400-12 performance testing standard used for all wind turbines worldwide. He chaired the AWEA Small Wind Standards Committee and led the development of the 2008 AWEA certification standard (also adopted in the U.K., Japan, and Canada). Mr. Bergey is the first president of the Distributed Wind Energy Association (DWEA), which represents the U.S. small and community wind industry. He also co-chairs the DWEA Federal Policy Committee. In 2003 Mr. Bergey served on Oklahoma Governor Henry's EDGE Committee, which prepared a strategic plan for economic development in Oklahoma. He then served two terms on the Governor's Council for Workforce and Economic Development. Mr. Bergey was Workforce Oklahoma's "Cleveland County Businessman of the Year" in 2005. He served on the Norman Chamber of Commerce Board from 2003 - 2010 and was the Chamber president in 2008. He has served on the boards of numerous civic and charitable organizations in Norman and Central Oklahoma.

Additional Learning

Adopting and Complying with the Zero Code 2.0

- Wed, April 20, 2022 | 10:00 am - 2:00 pm CDT

- Tues, April 5, 2022 | 8:30 am - 4:30 pm CDT

IBC Building Classification, Occupancy and Mixed Occupancies

- Wed, April 13, 2022 | 9:00 am - 4:30 pm CDT

Designing for Fire Protection

- Tues, April 19, 2022 | 9:00 am - 4:00 pm CDT

Structural Forensic Engineering

- Tues, April 19, 2022 | 9:00 am - 3:50 pm CDT

Low Impact Development

- Wed, April 20, 2022 | 10:00 am - 2:00 pm CDT

- Thurs, April 21, 2022 | 10:00 am - 12:45 pm CDT

Onsite Wastewater Treatment Systems: Innovations, Commercial and Cluster Systems

- Mon, April 25, 2022 | 8:30 am - 4:00 pm CDT

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