

Agenda

Presented by Dr. Rakesh Govind

Overview of Ohio Private Water Wells

- Defining private water systems
- Overview of groundwater rights in Ohio
- Ohio Department of Natural Resources regulations
- Ohio Department of Health regulations
- Local regulations
- Water well planning and construction
- Water quality testing
- Well maintenance and decommissioning

Onsite Wastewater Treatment Technologies

- Technology and operation of conventional wastewater treatment systems
- Problems with conventional onsite systems
- Recent scientific and technical advances
- Performance-based management of systems

Evaluating Sites and Setting Treatment Goals

- System boundaries and loadings
- Analyzing the receiving environment
- Evaluating landscape and soil types
- Nitrogen and pathogen removal
- Treatment/removal of phosphorus and other pollutants
- Mapping the site

Conventional Treatment System Selection and Design

- Factors for selecting and sizing systems
- Design considerations
- System performance
- Initial system design

Alternative and Sustainable Treatment Technologies

- Aerobic treatment systems
- Peat biofilter wastewater treatment systems
- Drip dispersal wastewater disposal systems
- Fixed-activated sludge treatment
- Recirculating sand filters
- Trickling filters
- Sequencing batch reactors
- Vegetated submerged beds
- Evapotranspiration
- Enhanced nutrient removal
- Stabilization ponds and constructed wetlands

Management Program for Onsite Wastewater Treatment Systems

- Monitoring of systems
- Developing maintenance plans
- Inspection procedures
- Repair options

Ohio Private Wells and Onsite Wastewater Treatment Systems

Live, Interactive Webinar - Monday, April 15, 2024

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Learning Objectives

You'll be able to:

Comply with regulations governing water well planning and construction.

Comply with Ohio state and local regulations for onsite wastewater treatment.

Evaluate wastewater treatment system sites and discuss possible system technologies.

Review the operation of conventional onsite wastewater treatment systems.

Explore new technologies, including aerobic treatment, peat biofilter treatment and drip dispersal systems.

Set up onsite wastewater treatment system monitoring and inspection procedures.



HalfMoon Education Live Webinars

Ohio Private Wells and Onsite Wastewater Treatment Systems

Live, Interactive Webinar - Monday, April 15, 2024



Comply with Ohio private water well regulations

Get tips on conventional treatment system design

Discuss the regulation and permitting of onsite wastewater treatment systems

Explore alternative and sustainable wastewater treatment technologies

Evaluate sites for onsite wastewater treatment

Continuing Education Credits

Professional Engineers
7.0 PDHs

International Code Council
.7 CEUs (Building)

Architects
7.0 HSW CE Hours
7.0 AIA LU | HSW

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Webinar Information

Log into Webinar 8:00 - 8:30 am EDT	Break 11:30 am - 12:00 pm EDT
Morning Session 8:30 - 11:30 am EDT	Afternoon Session 12:00 - 4:30 pm EDT

Tuition
\$319 for individual registration.
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Faculty

Dr. Rakesh Govind has worked on biological treatment of wastewater for the past 35 years. He has been a principal investigator of research funded by the USEPA, and he has published several papers and presented papers on this topic at National and International Conferences. He founded PRD Tech in 2004 to advance applications of his research for industrial wastewater treatment and NextGen Septic in 2018 to install advanced septic tanks for single family houses and communities. Over 200 such advanced treatment systems are currently operating in Kentucky and Ohio. Recently, Dr. Rakesh Govind has been working with the Government of India and companies in India, US and Europe to advance ultrafine bubble biomedica reactor (UFBRR) Technology which uses nanobubbles of 90% oxygen and a proprietary, high-surface area moving biomedica to reduce treatment time and hence plant size, and achieve 40% energy reduction, over 80% waste sludge production and 30% capital cost reduction compared to current technologies of moving bed bioreactor (MBBR) and membrane bioreactor (MBR) processes.

Credit Information

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 licensed architects in Ohio.

The American Institute of Architects Continuing Education System has approved this course for 7.0 HSW LUs (Sponsor No. J885). Only full participation is reportable to the AIA/CES.

The International Code Council has approved this event for .7 CEUs in the specialty area of Building (Preferred Provider No. 1232).

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 may not be eligible for the same credits as the live presentation; 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:
7.0 HSW LUs (AIA)

Additional Learning

2024 Ohio Building Code
Live in Dublin, OH or Online
Tuesday, April 9, 2024 | 8:30 am - 4:00 pm EDT
Credits: Professional Engineers: 7.0 PDHs | Architects: 7.0 HSW CE Hours
AIA: 7.0 LU | HSW | International Code Council: .7 CEUs (Building)

Agenda Highlights:

- Learn about adoption and amendment of the International Building Code in Ohio
- Comply with code provisions on classification and occupancy of buildings
- Meet requirements for fire protection, egress and accessibility
- Examine code provisions on structural design, exterior walls and roofs
- Comply with requirements for interior construction
- Review requirements for the use of specific materials, including concrete, wood and steel

Presented by
Robert J. Schutz *Retired Building Official with the City of Columbus, Ohio*
24 OHIBCODE 4 9 WEBC LH/24 OHIBCODE 4 9 DBLN LH

International Residential Code 2021
- Friday, March 1, 2024 | 9:30 am - 6:00 pm EST

Residential Energy Efficiency Code Compliance and Stretch Code Requirements
- Thursday, March 7, 2024 | 9:30 am - 5:30 pm EST

Practical Fluid Mechanics
- Friday, March 8, 2024 | 9:30 am - 4:30 pm EST

Water Damage Events: Scope, Risks, and Accountability in Remediation
- Monday, March 11, 2024 | 10:00 am - 6:00 pm EDT

NFPA 99: Health Care Facilities Code
- Tuesday, March 12, 2024 | 10:00 am - 5:30 pm EDT

Wayfinding for Designers and Building Professionals
- Wednesday, March 13, 2024 | 10:00 am - 1:00 pm EDT
- Thursday, March 14, 2024 | 10:00 am - 1:00 pm EDT

Current Issues in New Urbanism
- Thursday, March 14, 2024 | 10:00 am - 5:00 pm EDT

Using RSMeans Data to Create Cost Estimates
- Friday, March 15, 2024 | 10:00 am - 5:30 pm EDT

2021 International Residential Code: Plumbing Systems
- Tuesday, March 19, 2024 | 1:00 - 5:30 pm EDT

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