

Agenda

Presented by Anish Jantrania and Kevin Sherman

Overview of Conventional 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

Regulation, Permitting and Sustainability of Onsite Wastewater Treatment Systems

- Federal, state, and local regulation of systems
- Coordinating system regulation with surface and groundwater regulations
- Treatment of systems under LEED certification programs
- Permit requirements and procedure examples from a few states

Drip Distribution Systems

- | | |
|---------------------------------|---|
| System components and operation | Advantages and drawbacks of system |
| Applications for systems | Initial cost, installation, and maintenance |

Aerobic Treatment Units

- | | |
|---------------------------------|--|
| System components and operation | Advantages and drawbacks of system |
| Applications for systems | Initial cost, installation and maintenance |

Recirculating Media Filter Systems

- | | |
|---------------------------------|--|
| System components and operation | Advantages and drawbacks of system |
| Applications for systems | Initial cost, installation and maintenance |

Evapotranspiration Systems

- | | |
|---------------------------------|--|
| System components and operation | Advantages and drawbacks of system |
| Applications for systems | Initial cost, installation and maintenance |

Constructed Wetland Systems

- | | |
|---------------------------------|--|
| System components and operation | Advantages and drawbacks of system |
| Applications for systems | Initial cost, installation and maintenance |

Peat Biofilter Systems

- | | |
|---------------------------------|--|
| System components and operation | Advantages and drawbacks of system |
| Applications for systems | Initial cost, installation and maintenance |

Enhanced Nutrient Removal Systems

- Nutrients of concern
- Ground water and surface water standards
- Nutrient reduction technologies
- Initial cost, installation and maintenance

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Innovative Private Onsite Wastewater Treatment Systems
Live, Interactive Webinar - Friday, August 26, 2022

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Learning Objectives

You'll be able to:

Review recent scientific and technical advances that move beyond conventional onsite systems.

Consider federal, state and local regulation of systems.

Explore drip distribution systems and their components and operation.

Consider initial cost, installation and maintenance of aerobic treatment units.

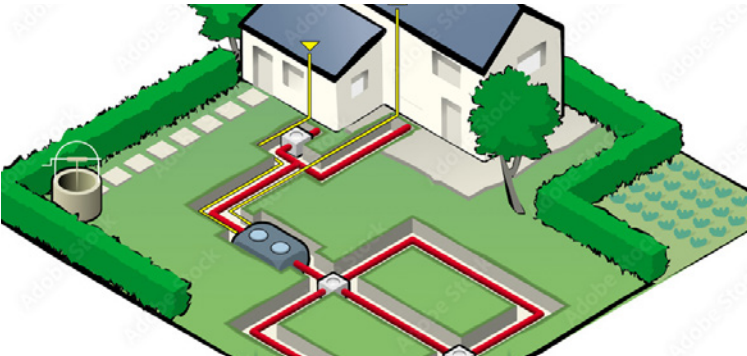
Evaluate the costs and benefits of recirculating media filter systems, evapotranspiration systems and peat bio filter systems.



HalfMoon Education Live Webinars

Innovative Private Onsite Wastewater Treatment Systems

Live, Interactive Webinar - Friday, August 26, 2022



Learn about advances in onsite wastewater treatment technologies

Understand the regulation, permitting and sustainability of onsite wastewater treatment systems

Explore drip distribution systems, aerobic treatment units, recirculating media filter systems, evapotranspiration systems, constructed wetland systems and more

Understand the applications for peat biofilter systems

Adopt nutrient reduction technologies

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Faculty

Anish Jantrania received a B.E. degree in agricultural Engineering from India, an M.S. in Agricultural Engineering from The Ohio State University, and a Ph.D. in Agricultural Engineering from Clemson University. He also has an MBA degree from West Virginia University, and he holds a professional engineering (P.E.) license in Texas and Virginia.

Dr. Jantrania is an associate professor/extension specialist in the Biological and Agricultural Engineering Department at Texas A&M University, Texas. Dr. Jantrania has over 30 years of experience working in the wastewater industry, both in public and private sectors, with a focus on on-site sewage facilities (septic and aerobic systems), and decentralized wastewater and water systems. His research and extension interests focus on sustainable infrastructure to ensure the availability of clean water to meet society's water demands, and to ensure safe sanitation to protect public health and environmental quality.

Before coming to Texas, Dr. Jantrania worked in Virginia, Massachusetts, and West Virginia. His work in Texas focuses on developing a statewide extension education and research program related to surface and groundwater quality protection with specific emphasis on onsite wastewater treatment and reuse technologies. Dr. Jantrania has authored and co-authored more than 50 papers, including a book titled *Advanced Onsite Wastewater Systems Technologies* published by CRC Press, and delivered more than 100 presentations at local, state, national and international conferences.

Kevin Sherman received a B.S. degree in Ecology & Evolution from Stony Brook University. He also has a B.S. degree in Civil Engineering from the FAMU/FSU College of Engineering. Dr. Sherman has a M.S. degree in Biology from the University of South Carolina, and a M.P.H. degree in Public Health Management from the University of South Florida. He also has a Ph.D. degree in Biological Oceanography from Florida State University.

Dr. Sherman worked with the Florida Department of Health for 14 years. From 1989 to 1992 he served as administrator of the onsite sewage program for the state. For six years, Dr. Sherman served as the executive vice president of the Florida Onsite Wastewater Association. Currently, he is a director of Engineering and Regulatory Affairs for SeptiTech, Inc., a wholly owned subsidiary of BioMicrobics, Inc.

Dr. Sherman is author or co-author of over 50 publications. He is a past-president of the Florida Environmental Health Association and the National Onsite Wastewater Recycling Association. He is a professional engineer in 17 states and a registered sanitarian in Florida. In 2007, he received the distinction of being named a diplomat of Water Resource Engineering by the American Society of Civil Engineering.

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- Tues, Aug 2, 2022 | 10:00 am - 12:00 pm CDT

Practical Engineering Economics
- Thurs, Aug 4, 2022 | 8:30 am - 4:20 pm CDT

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- Tues, Aug 9, 2022 | 10:00 - 11:00 am CDT

2021 International Residential Code: Residential Energy Conservation
- Wed, Aug 10, 2022 | 11:00 am - 3:30 pm CDT

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- Fri, Aug 12, 2022 | 9:00 am - 4:00 pm CDT

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