

OOWA I.N.F.O

Industry News for Ohio

August 2023

Mancl Named a Fellow of the American Society of Agricultural and Biological Engineers

ASABE defines a Fellow as a member of unusual professional distinction, with outstanding and extraordinary qualifications and experience in, or related to, the field of agricultural, food, or biological systems engineering. ASABE Fellows possess a minimum of 20 years of active practice in, or related to, the profession of engineering; the teaching of engineering; or the teaching of an engineering-related curriculum and a minimum of 20 years as an active Member-Engineer or Member in ASABE. Annually, fewer than 0.2 percent of the number of eligible members will be elected to the Grade of Fellow. This is ASABE's highest honor.

Karen Mancl, professor, Ohio State University, is being honored for her commitment to eliminating the discharge of water pollutants from homes, communities, and food industries in rural America.

Mancl is a professor of food, agricultural, and biological engineering and a water quality specialist at Ohio State University (OSU). She conducts research and teaches courses in rural infrastructure and onsite wastewater treatment. She established the Soil, Environment, Technology Learning Lab, which is a research and teaching facility at OSU. She also conducts international policy research on US/China environmental issues with the Woodrow Wilson Center for Scholars. In 2023, Mancl was named a Wilson Center Fellow to study renewed agricultural collaboration between the United States and China.

Mancl's extensive work has resulted in a design manual series on low-cost onsite wastewater treatment systems. The research and manuals introduced technologies such as mound, sand bioreactor, and onsite spray wastewater treatment systems and became the basis for new Ohio wastewater regulations. Two manuals were also published in Chinese and she worked with the Shandong Academy of Agricultural Sciences to bring low-cost wastewater treatment to rural China. Research on treatment of food processing wastewater resulted in the construction and operation of a first of its kind full-scale wastewater treatment system at an Ohio meat processing plant. Over the first decade of



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From the Desk of the President...

Greetings!

I hope that business in 2023 is going good! I know that I am finding a way to remain busy!

The Ohio Onsite Wastewater Association is excited to be hosting the OOWA Service Provider Training once again! This will take place on November 8-9, 2023 at the Columbus Airport Marriott. More information can be found on the OOWA website and registration forms can be found throughout the newsletter! Be sure to book your hotel room by Friday, October 20, 2023. You can give the hotel a call at: (614) 475-7551!

Also, be sure to save the date for the 2024 OOWA Annual Conference that is taking place at the Cherry Valley Hotel on January 9-10, 2024!

Here is to a successful and busy summer!

Zak

Zak Sherman, OOWA President

ARE YOU IN NEED OF CONTINUING EDUCATION?

The Ohio Onsite Wastewater Association (OOWA) will have 13.75 pre-approved CE hours available online in 14 individual courses, available very soon to our membership and to non-members alike. The courses were developed from recording the presentations in our two-day training program in November 2019. The online training is now offered via our affiliation with the National Onsite Wastewater Recycling Association's (NOWRA) online education platform.

Our courses have been pre-approved by the Ohio Department of Health (ODH) for sewage treatment system (STS) contractors, as well as, for Ohio sanitarians.

For those interested in Ohio Registration as a STS Service Provider, by completing the entire packaged set of 14 courses in lieu of manufacturer's training, you become eligible for two years to service all treatment products that require manufacturer's training, other than those that discharge under an NPDES permit or utilize drip distribution. Additionally, for STS service providers, completion of the packaged set of 14 courses satisfies CE requirements for the following two years registration.

Completion of any of the courses will result in a certificate of competition for your records.

Please stay tuned for more existing courses that will be made available in the coming months by both OOWA and NOWRA for your Ohio related continuing education needs.

Guide Your Grade, Guide Your Success

Why Grade Guidance Matters on Modern Jobsites

By Shane Zysk, Marketing Coordinator, Precision Laser & Instrument, Inc.

In my last article, a broad overview of 21st-century technology as it relates to onsite wastewater applications was covered. The truth is, however, that each step in the process, from concept to completion and everything in between, can be beneficially impacted in some way through modern innovations to a much greater extent than one look can reasonably shed light on. Today, we're going to explore one of the biggest of all – the one that involves breaking ground, and whose successful adaptation can have 'groundbreaking' results! I'm talking about grade guidance, which is, in essence, the ability to level up your excavation capabilities from rough cuts to the precision of a surgeon's scalpel. Most onsite wastewater projects require some form of machine-guided digging, and the ever-increasing demands and complexity of our world have left less room for error than ever before. Fortunately, professional-grade guidance solutions are here that can provide the accuracy, efficiency, and ability for modern onsite wastewater installers to build at their very best.

As stated previously, our world these days appears ever more complex. Contemporary utilities including gas lines, water lines, and electric lines provide for potentially-hazardous conditions where they occur. Regardless of how well, and they most certainly should be, identified they are ahead of time, the risk of hitting them is always there. Add in roadways, sidewalks, driveways, walls, fences, buildings, and a host of other fixtures found in most municipalities, and the need to disturb the ground with accuracy and only where you want to is more crucial than ever. In the past, this has always been done with a crew arduously involved in the task of painstakingly measuring twice, cutting (hopefully) once, and checking their progress time and time again via separate instruments that run, at best, in conjunction with an excavation machine to attempt to match digging intent with results. Whilst technologies such as transits and total stations can aid in layout above-ground, and construction lasers certainly have their place as well, making sure the work done beneath the dirt is on point really requires its own solution. Enter grade guidance, a system tailor-made to suit a wide array of excavating systems, from mini machines to multi-ton excavators, that puts the power of determining depth and slope literally in the hands of the driver.

After decades of multi-person, error-prone teams having to constantly double-check their progress, excavating solutions have

been developed that allow for complete, one-person operation from inside the vehicle's cabin in real time!

Dial-in grade functionality and easy-to-use LED displays make guiding digs a breeze, and the numerous mount options of such systems allow for quick and simple installation on any number of vehicles. There are no cables or clunky battery packs, with components including solar-powered sensors that communicate wirelessly via radio and Bluetooth with each other, giving precise insight into multiple points of movement on the machine and allowing for centimeter-level accuracy.

The operator guides the entire process from the driver's seat, using a touchscreen tablet that illustrates exact elevations, levels, and slopes in 2D or 3D, operating with friendly software that keeps progress on track and data flowing seamlessly between the field and the office. There are even tie-ins to GNSS constellations that enable surveying and mapping applications and rich deliverables to customers.

All of the capabilities of such modern grading systems really allow productivity to shine on the jobsite. They free up team members to focus on other tasks or jobs entirely, as well as keep them safe and out of harm's way when the excavator is running. The ability to link in real-time into pre-determined layouts, digital plans, and GNSS coordinate systems ensures work is done to exacting specifications. Furthermore, centimeter-level precision is literally at the fingertips of the operator, with technology-guided workflows that give users the capability of making adjustments with fine detail, when and where necessary. With all of this insight and data-rich confidence, digs are done right the first time, in much less time, avoiding costly rework and utilizing less vital resources that can be put to work elsewhere. Even better, with the work done linked with precise digital plans via today's



Modern grade guidance solutions allow for one-person jobs as the operator can dial-in and make centimeter-level moves all without leaving the cabin

Continued on Page 12



OOWA Operation & Maintenance Service Provider Training Program

NOVEMBER 8-9, 2023

Columbus Airport Marriott
1375 N. Cassady Avenue, Columbus, OH 43219

Exhibitor Registration

Contact Information:

Contact Name: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ E-Mail: _____

Exhibitor Information:

- ☐ Bronze Sponsor Exhibitor—includes table, 2 chairs, registration for one company representative, listing on the OOWA website—\$650.00
- ☐ Silver Sponsor Exhibitor— includes table, 2 chairs, registration for one company representative, listing on the OOWA website and option to include literature/promotional materials in attendee's packet—\$850.00
- ☐ Gold Sponsor Exhibitor— includes table, 2 chairs, registration for one company representative, listing on the OOWA website, option to include literature/promotional materials in attendee's packet, and FREE OOWA MEMBERSHIP to give to employee or customer — \$1,050.00

Additional Company Representative Information:

- ☐ Additional company representative attending training—\$295.00 Name: _____
- ☐ Additional company representative not attending training—\$195.00 Name: _____

Total Due: _____

No refunds after October 25, 2023

Please make check payable to: OOWA or fill in Visa, MasterCard, Discover, or American Express info below:

Card Number _____ Expiration Date _____ CVV: _____

Billing Address: _____

Please send form & payment to: OOWA, 6870 Licking Valley Road, Frazeyburg, OH 43822 (740) 828-3000

Please make hotel reservations directly with hotel. Call 614-475-7551 before November 2, 2023 and get your room for \$129.00 (plus tax)

Questions? Call OOWA at (740) 828-3000 or email ohioowa@gmail.com

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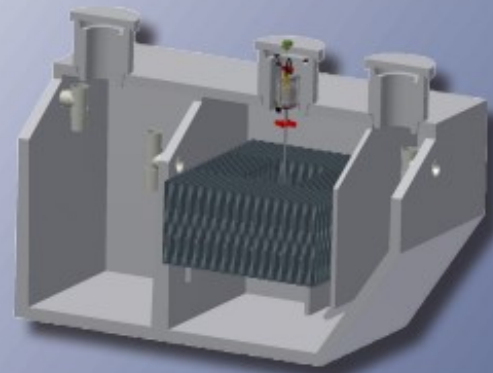
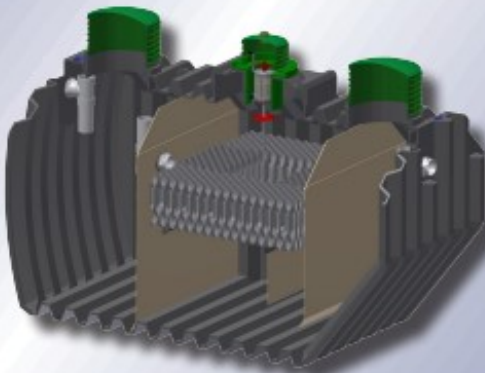


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OOWA Operation & Maintenance Service Provider Training Program

NOVEMBER 8-9, 2023

Columbus Airport Marriott
1375 N. Cassady Avenue, Columbus, OH 43219

No refunds after October 25, 2023

Attendee Registration

Contact Information:

Contact Name: _____
 Company: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone: _____ E-Mail: _____

Attendee Information:

	Member Fee and Before November 1, 2023	Member Fee and After November 1, 2023	Non-Member Fee	Amount Due:
Must be an 2023 OOWA Member in good standing to get member rate!				
2 Day Registration Attendee Name(s): _____ _____ _____	305.00 per person	325.00 per person	385.00 per person	
1 Day Registration Attendee Name(s): _____ _____ _____	175.00 per person	195.00 per person	230.00 per person	
2 lunches, 1 breakfast, breaks, and CEUs are included in registration fee.				
Total Amount Due:				

Please make check payable to: OOWA or fill in Visa, MasterCard, Discover, or American Express info below:

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Please send form & payment to: OOWA, 6870 Licking Valley Road, Frazeyburg, OH 43822 or ohioowa@gmail.com



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www.epa.gov/septic



Ohio to Host 2025 Mega Conference!

NOWRA is pleased to announce that the 2025 Onsite Wastewater Mega-Conference is coming to Ohio. The dates for the event are October 19 – 25, 2025 at the Kalahari Resort and Convention Center in Sandusky, Ohio. The 2025 Mega-Conference will be sponsored by NOWRA, NAWT, SO-RA, and OOWA. As part of the event, NOWRA will host a Backhoe Roe-D-Hoe competition. For more information on the conference, please contact NOWRA at info@nowra.org.

Mancl Continued

operation, the system has met all effluent standards. Mancl's work is helping to continue dialogue between the United States and China on climate change issues in agriculture.



Mancl is a 39-year member of ASABE. She was previously the chair of the ASABE Soil and Water Division. She is also a past president and founding member of the Ohio Onsite Wastewater Association. She maintains membership with the Water Environment Federation, the American Water Works Association, and the Ohio Academy of Science.

Mancl has authored or coauthored many publications, including peer-reviewed papers, conference proceedings papers, and extension publications. Throughout her career, Mancl has received a number of awards including 20 ASABE Educational Aids Blue Rib-

bon Awards. She received the Wisconsin Governor's Award for Children and Youth, and a Distinguished Alumni Award from the University of Wisconsin Green Bay. She also received several awards from Ohio State University including the diversity award from the College of Food, Agriculture and Environmental Sciences and a mentoring award from the College of Engineering. She received a distinguished service award from both the Ohio Onsite Wastewater Association and Water Management Association of Ohio.

She was inducted at a July 10 ceremony at the 2023 ASABE Annual International Meeting, in Omaha.

Congratulations Karen! The Ohio Onsite Wastewater Association is very happy for you!

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Save the Dates for Upcoming OOWA Events:

2023 OOWA Service Provider Training
November 8-9, 2023
Columbus Airport Marriott—Columbus, OH

2024 OOWA Annual Conference
January 9-10, 2024
Cherry Valley Hotel—Newark, OH

Follow Us On



Service Provider Training Schedule of Events...

November 8

Wastewater Primer, Sara Heger

Pumps Overview and Troubleshooting, Nicholas Dykes

Management Considerations for Vacation Home Rentals, Sara Heger

Control Panel Overview, Nicholas Dykes

Evaluating Septage and Septic Tank Performance, Sara Heger

Electricity – What You Need to Know, Nicholas Dykes

November 9

Nationally Developed Homeowner Materials, Sara Heger

Introduction to Nitrogen Treatment, Sara Heger

Contaminants of Emerging Concern, Sara Heger

Panel Controls and Components, Ryan Wallace

Be sure to book your hotel room by: Friday, October 20, 2023

Hotel Phone Number: (614) 475-7551

Book Online [Here!](#)

Guide Your Grade, Guide Your Success

Why Grade Guidance Matters on Modern Jobsites



Today's grade guidance systems feature compact, wireless sensors and even tie-in features such as surveying and mapping GNSS receivers that are easy-to-use and highly mobile

intuitive software, onsite wastewater installers will have what was done and exists to that level of detail at their disposal indefinitely, allowing for concrete knowledge of where and what should the need arise to visit a site again in the future. Imagine being able to revisit a

wastewater system decades later for renovation, restoration, expansion, or improvement and know down to the centimeter exactly where the pipes are, but their angles, dimensions, slopes, composition, and adjacent utilities and obstacles right off the bat! Now that's the power of modern information.

A final point I'd like to make with regard to the benefits of 21st-century excavator machine guidance is in regard to unleashed potential. As with a lot of construction operations, the limits of one's success and profits are really a measure of that company's capabilities. Simply put, this technology allows onsite wastewater installers and operators to do more. It frees up their valuable workforce and keeps them safer. Digging is quicker and more accurate than ever, boosting reputations and giving owners the confidence to bid bigger and more complex jobs, not just because they can hit the accuracy requirements mandated by municipalities, environmental groups, or private landowners, but because the insights gleaned from the use of such solutions give them a firmer understanding of the work.

Scheduling, material costs, quantities, and related considerations fall to more accurate forecasting than ever, allowing businesses to bid more effectively and grow. Crews are kept safer and the next generation of skilled professionals will furthermore be more interested in working for groups open to the use of modern technologies.

Though the concept of onsite wastewater is certainly nothing new, its place as a necessity in this world has forever fixed it within civilization and made it a contemporary issue. A timeless requirement, it has seen the rise and fall of countless ages but has still been impacted by the times around it. From new materials and standards to tools of the trade, the state of the onsite wastewater industry is as much a product of the times as any other.

I'm sure the steam shovel raised eyebrows with its early entrance into the world, but there are few excavation contractors alive today who could imagine performing their duties without the modern bucket. It is in a similar light that 21st-century machine guidance ought to be viewed, for it has already proven itself a game-changer to the companies that adopt it. Furthermore, while numerous technological advancements exist that are sure to have the potential to advance the operations of onsite wastewater contractors, those that involve the work below ground are sure to be the most heavily felt. The particular solution is up to them, but it is the responsibility of the modern onsite wastewater contractor to seriously investigate their options, guide their grade and guide their future success.



From mini excavators to multi-ton buckets, grade guidance can be used on a wide variety of machines and jobsites

NOWRA Educational Scholarship Available to OOWA Members

OOWA members are eligible for the recently created NOWRA Educational Scholarship. This is the first year that NOWRA is offering two \$2,000 scholarships for young and early career students with an interest in the onsite wastewater sector. The application can be found [here](#) and is due by Sept. 8th, 2023.

For more information, please contact Robert Bair at NOWRA!

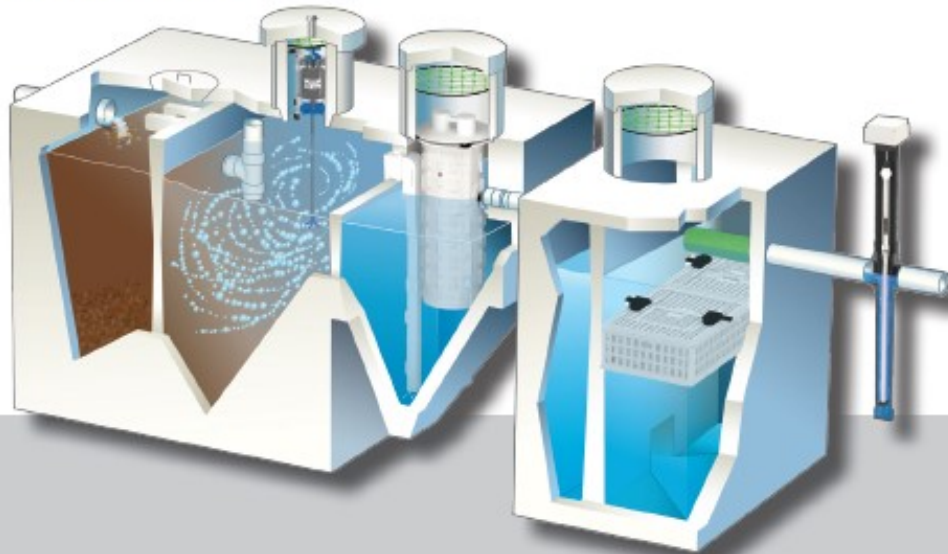


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