

The Operator Training Committee of Ohio, Inc.



A 501(c)(3) non-profit organization

# 55<sup>th</sup> Annual Wastewater Workshop

*This valuable continuing education event is intended for certified and non-certified personnel*

**Tuesday, April 3, 2018  
&  
Wednesday, April 4, 2018**

## HELD AT:

DoubleTree by Hilton  
175 Hutchinson Ave.  
Columbus OH 43235

OPERATOR TRAINING COMMITTEE OF OHIO, INC.  
3972 Indianola Avenue \* Columbus, OH 43214  
(614) 268-6826 \* Fax (614) 268-3244

[www.otco.org](http://www.otco.org)



## WORKSHOP PRESENTATIONS

### Ohio EPA Division of Surface Water 2018 Update

*State of plant operations including nutrient removal, compliance & non-compliance issues, and future expectation.*

### Changing Day-to-Day Operations to Maximize Biological Phosphorus Removal

*A practical, hands-on session for wastewater operators that includes the following elements:*

- *What operators need to know about biological P-removal science and technology*
- *Case studies describing the process changes that allow wastewater facilities not designed to remove phosphorus to lower effluent total-P to 1 mg/L and less*
- *An audience participation brainstorming session using an Ohio wastewater treatment plant not designed for phosphorus removal*

### Attached Growth vs Suspended Growth - Alternative Treatment Methods

*Basic advantages and disadvantages of attached growth treatment and suspended growth treatment.*

### Low Pressure Sewer System Application, Design and Maintenance

*History and Application of LPSS, design criteria & application, hydraulic design, application identification techniques, installment methods, techniques, materials, and maintaining.*

### Wastewater Reuse with Membrane Bioreactor Technology

*Membrane Bioreactor (MBR) technology is being used to treat the Village of Galena wastewater to Title 22 reuse standards for discharge into Hoover Reservoir. Learn about MBR technology and also the design-build process the Village of Galena is employing to stay on budget and meet an aggressive completion schedule.*

### Ohio EPA Certification and Resiliency Update

*Certification, Compliance & Resiliency, Ebiz.*

### Method Update Rule & new Method for MDL Calculations

*EPA is promulgating specific changes to analytical test procedures that are used by industries and municipalities to analyze the chemical, physical, and biological components of wastewater and other environmental samples that are required by regulations under the Clean Water Act.*

### Workforce Pipeline

*Efforts in apprenticeship and internships for water and wastewater systems.*

### NEORS Operator Training for Compliance

*NEORS progressive approach of keeping operation staff educated in staying in treatment compliance including apprenticeships and internships.*

### NEORS Asset / GIS Management Program for Plants and Collection Systems

*How NEORS used GIS Management Program to capture important assets.*

### Go With the Flow

*Ohio EPA's Compliance Assistance approach to staying in operational compliance.*

## KEY WORKSHOP PRESENTER:

**Grant Weaver, PE**, President CleanWaterOps

[cleanwaterops.com](http://cleanwaterops.com) [g.weaver@cleanwaterops.com](mailto:g.weaver@cleanwaterops.com)  
*Post-Graduate Studies in Environmental Technology: MIT; Master of Science Degree in Bio-Environmental Engineering: Oklahoma State University; Bachelor of Science in Biology: Kansas State University; Wastewater operator licensing: Connecticut, Massachusetts, New Hampshire and Rhode Island; Review author of the Water Environment Federation's recently rewritten Operation of Nutrient Removal Facilities Manual; Author of numerous trade journal articles and presenter/lecturer at meetings and conferences including Water Environment Federation and Water Treatment Plant Operator (TPO).*

## WORKSHOP OVERVIEW

OTCO's Annual Wastewater Workshop presents information on the latest updates from the EPA regarding regulations on operations and operator certification. Public and private wastewater facilities, staff, and consultants present topics ranging from operations, water quality, plant maintenance, laboratory, management, and asset management.

The Wastewater Workshop can be utilized to fulfill the contact hour requirement for the following Ohio EPA Certified Operators:

- **Wastewater: Class A, I, II, III, & IV**
- **Wastewater Collection Systems: Class I & II**

## HOW TO REGISTER

Mail, fax, or email the completed application by **March 30, 2018** for the registration rate of \$320. A \$25 late fee may apply to registrations received after **March 30, 2018**. Once your application is processed, a confirmation is sent by fax or email.

## REGISTER ON-LINE AT:

<https://www.otco.org/workshops.html>

## PAYMENTS & CANCELLATIONS

OTCO accepts check or credit card as payment for this event. Purchase Order must accompany registrations in order to invoice your company.

Cancellations received in writing 5 days before the event will receive a full refund. Cancellations made five days – 24 hours before the event up to is subject to \$25 per day service charge. Substitutions are permitted; however, **NO REFUND FOR THOSE WHO REGISTER AND FAIL TO ATTEND.**

## ACCOMMODATIONS

DoubleTree by Hilton  
175 Hutchinson Ave \* Columbus OH 43235  
(614) 885-3334

**Request the "OTCO Wastewater Workshop" for the \$83.00 per night room rate for this event.**  
*Room rates are subject to state and local taxes*

**Room rate expires March 19, 2018**

### CONTACT HOURS

Contact Hours from these training events will be included in the attendee's official transcript page:

<https://www.otco.org/student-transcript.html>

To access this information, have your OTCO Student ID and PIN Number available.

### OHIO EPA EBIZ

Contact hours from this event will be entered into your Ohio EPA Ebiz account.

### CONTACT HOURS TO GO!

Attendees who complete both days shall receive one online course for an additional 6.00 contact hours:

*Recommended Standards For Wastewater Treatment Facilities - Online OTCO-S12635-OM 6.00 contact hours*

**The course can be used by either the attendee or an employee of the same organization.**

### 2018 OTCO WORKSHOPS

#### Water Workshop: \$320

Water Contact Hours: 12.00  
March 6 & 7, 2018 – DoubleTree by Hilton

#### Marietta Wastewater Workshop \$150/day \$275/both days

Wastewater Contact Hours: 6.00/12.00  
March 14-15, 2018 – The Lafayette Hotel

#### Pretreatment & Wastewater Laboratory Workshop: \$170

Wastewater Contact Hours: 6.00  
May 15, 2018 – Holiday Inn Worthington

#### Asset Management Workshop: \$170

Water/Wastewater Contact Hours: 6.00  
May 16, 2018 – Holiday Inn Worthington

#### Water Laboratory Workshop: \$170

Water Contact Hours: 6.00  
May 16, 2018 – Holiday Inn Worthington

#### Class III/IV Workshop: \$320

Water/Wastewater Contact Hours: 12.00  
July 25 & 26, 2018 – Mt. Sterling, Ohio

#### Compliance Workshop: \$320

Water/Wastewater Contact Hours: 12.00  
October 2 & 3, 2018 – DoubleTree by Hilton

#### Water Distribution Workshop: \$320

Water Contact Hours: 12.00  
November 13 & 14, 2018 – DoubleTree by Hilton

#### Procrastinator's Workshop: \$320

Water/Wastewater Contact Hours: 12.00  
December 4 & 5, 2018 – DoubleTree by Hilton

### Wastewater Workshop Agenda

Tuesday, April 3, 2018

- 7:30 am Registration/Coffee/ Pastries
- 8:00 am OTCO Update and Welcome  
*Curtis L. Truss Jr., OTCO Executive Director*
- 8:15 am Ohio EPA Division of Surface Water 2018 Update  
OTCO-S13058-OM (0.75 hours)  
*Brian Hall, Assistant Chief  
Ohio EPA, Division of Surface Water*
- 9:00 am Phosphorus Removal Science & Technology  
OTCO-S13071-OM (0.75 hours)  
*Grant Weaver, PE, President  
CleanWaterOps*
- 9:45 am BREAK
- 10:00 am Phosphorus Removal Case Studies  
OTCO-S13072-OM (1.50 hours)
- 11:30 am LUNCH (provided)
- 12:30 pm Phosphorus Removal Class Participation  
OTCO-S13073-OM (0.75 hours)
- 1:15 pm Attached Growth vs Suspended Growth Alternative Treatment Methods  
OTCO-S13062-OM (0.75 hours)  
*Jason Bradley, Chief Operations Officer  
Bradley Innovation Group, LLC.*
- 2:00 pm BREAK
- 2:15 pm Low Pressure Sewer System Application, Design and Maintenance  
OTCO-S13063-OM (0.75 hours)  
*Bob Jordan, V.P. of Sales  
Covalen – Smart Infrastructure*
- 3:00 pm Wastewater Reuse with Membrane Bioreactor Technology  
OTCO-S13064-OM (0.75 hours)  
*Dr. Tom Marshall, P.E., Environmental Engineer  
Village of Galena*
- 3:45 pm Adjourn

**TOTAL CONTACT HOURS: 6.00**

Mr. Weaver will be available for questions after the workshop at an informal gathering between 5:30pm-7:30pm

### Wastewater Workshop Agenda

Wednesday, April 4, 2018

- 7:30 am Registration/Coffee/ Pastries
- 8:00 am OTCO Update and Welcome  
*Curtis L. Truss Jr., OTCO Executive Director*
- 8:15 am Ohio EPA Certification and Resiliency Update  
OTCO-B13065-OM (0.75 hours)  
*Andy Barienbrock, Manager  
Ohio EPA, Operations, Resiliency, & Certification*
- 9:00 am Method Update Rule & New Method for MDL Calculations  
OTCO-S13074-OM (0.75 hours)  
*Steven Roberts, QA Section/  
State DMR-QA Coordinator/Lab Certification  
Ohio EPA, Division of Environmental Services*
- 9:45 am BREAK
- 10:00 am Workforce Pipeline  
OTCO-B13038-X (0.75 hours)  
*Linda O'Connor, Assistant Director  
Career Technical Education-Ohio Department of Education*
- 10:45 am NEORS Operator Training for Compliance  
OTCO-B13070-OM (0.75 hours)  
*Terry Meister,  
Northeast Ohio Regional Sewer District*
- 11:30 am LUNCH (provided)
- 12:30 pm NEORS Asset / GIS Management Program for Plants and Collection Systems  
OTCO-S13067-OM (1.00 hours)  
*Jeff Duke, Manager of GIS Services  
Northeast Ohio Regional Sewer District*
- 1:30 pm BREAK
- 1:45 pm Go With the Flow – Part 1  
OTCO-S13068-OM (1.00 hours)  
*Jon Van Dommelen, Environmental Specialist  
Ohio EPA, Compliance Assistance Unit*
- 2:45 pm Go With the Flow - Part 2  
OTCO-S13069-OM (1.00 hours)  
*Jon Van Dommelen, Environmental Specialist  
Ohio EPA, Compliance Assistance Unit*
- 3:45 pm Adjourn

**TOTAL CONTACT HOURS: 6.00**

## OTCO REGISTRATION FORM

### 55<sup>th</sup> Annual Wastewater Workshop

Tuesday, April 3, 2018 & Wednesday, April 4, 2018

Register On-line at:

<https://www.otco.org/workshops.html>

**Held At: DoubleTree by Hilton**

175 Hutchinson Ave \* Columbus, OH 43235

OTCO STUDENT ID #	
FIRST NAME	
LAST NAME	
TITLE	
EMPLOYER	
ADDRESS (1)	
ADDRESS (2)	
CITY	
STATE	ZIP
BUS. TELEPHONE ( )	- EXT
FAX ( )	- (for confirmations)
EMAIL ADDRESS	
Please check & initial if information needs to be updated in OTCO Training Tracking System. <input type="checkbox"/>	
<b>Please check which day(s) you are registering for below:</b>	
<input type="checkbox"/> April 3 & 4 (both days): \$320 After 3/30/18 \$345	
<input type="checkbox"/> April 3 <sup>rd</sup> Only: \$170 After 3/30/18 \$185	
<input type="checkbox"/> April 4 <sup>th</sup> Only: \$170 After 3/30/18 \$185	
CHECK/MONEY ORDER / P.O. #	
<input type="checkbox"/> Please invoice my company	
Charge to my credit card account:	
<input type="checkbox"/> Visa <input type="checkbox"/> MasterCard <input type="checkbox"/> Discover <input type="checkbox"/> AMEX	
Billing Zip Code	(For security purposes)
CARD NUMBER:	
NAME ON CARD	
EXP. DATE /	CCV Code:
x _____	
CARD HOLDER SIGNATURE	

MAIL OR FAX THE COMPLETED FORM TO:

**OPERATOR TRAINING COMMITTEE OF OHIO, INC.**  
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(614) 268-6826 \* Fax (614) 268-3244

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