Attention Water and Wastewater Departments

Florence Events Center, Florence, Oregon • October 7–10, 2019
Earn up to 2.1 CEUs in either Water or Wastewater
Please use one form for each person attending (photocopy additional forms as needed).

Full Name ________________________________________________________________________________________________

Water Certification # _______________ Wastewater Certification # _______________  □ Working toward certification

System Name ________________________________________________________________________________________________

System Address ________________________________________________________________________________________________

City ___________________________ State _________________ Zip ______________________________

System Phone ___________________ System Email ______________________________

Pre-Conference (Monday, 0.6 CEUs)

<table>
<thead>
<tr>
<th>Course (check box for course attending)</th>
<th>Fee</th>
<th>Subtotal</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Effective Utility Management (0.6 Water/Wastewater CEUs)</td>
<td>FREE</td>
<td>FREE</td>
</tr>
<tr>
<td>□ Cross Connection Specialist Update (0.6 Water CEUs)</td>
<td>$120</td>
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</table>

PRE-CONFERENCE TOTAL

Full Conference (Tuesday–Thursday, 2.1 CEUs)

<table>
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<tr>
<th>Conference Registration</th>
<th>Early Bird (postmarked by Sep. 5)</th>
<th>Standard (postmarked after Sep. 5)</th>
<th>Subtotal</th>
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<tbody>
<tr>
<td>OAWU Member</td>
<td>$305</td>
<td>$335</td>
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<tr>
<td>Non-Member (non-members receive a one-year individual membership with conference registration)</td>
<td>$405</td>
<td>$435</td>
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TOTAL REGISTRATION FEES

TOTAL CONFERENCE FEES

□ Payment Enclosed □ Purchase Order: PO # ________________________ □ Please Invoice

If paying by credit card, please call the OAWU office for processing and receipt.

□ Email receipt to: ___________________________ □ Fax receipt to: ________________________

Confirmation & Cancellation

No refunds will be issued and a regular registration fee will be billed for those who fail to attend and do not give the OAWU office a seven-day prior notice (no later than Monday, September 30, 2019).

Please keep a copy of your registration form or contact the OAWU office at 503-837-1212 for confirmation.

SEND REGISTRATION FORM AND FEES TO:

Mail: OAWU, 935 N. Main Street, Independence, OR, 97351  Email to: office@oawu.net  Fax: 503-837-1213
## Monday, October 7, 2019

### Effective Utility Management
09:00 AM – 04:30 PM

Participate in a workshop for success at your water and wastewater facility. Look at challenges such as aging infrastructure, growth, and adequate revenues that reflect true operational costs today and in the future. At this workshop, you will be involved in ten key management areas, assessing your strengths and weaknesses with a framework conducive of a well-rounded water and wastewater utility management approach.

*Scott Berry, OAWU*

### Cross Connection Specialist
09:00 AM – 04:30 PM

ESAC #3388

Obtain your Cross-Connection Specialist updates, upon completion, renew the Oregon Cross Connection Specialist Certification.

*BMI – Garret Yates*

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## Tuesday, October 8, 2019

### Opening: Workplace communications!
08:30 – 08:45 AM

In times of change, both professional and personal, what influences affect the work environment?

*Tim Tice, OAWU*

### Recovered Revenues
08:45 – 10:15 AM

Understand metering inaccuracies, loss revenues, and using static meter technologies to recoup revenues.

*Tim Owens, Correct Equipment*

### Excavation
10:15 – 12:00 PM

The rules and inspection process when inspecting an excavation site.

*Larry Fipps, Oregon OSHA*

### Manhole Rehabilitation
10:30 AM – 12:00 PM

Look at manhole rehabilitation, methods of restoration, cost associated versus replacement.

*Don Rigby, Madewell Products*  
*Doug Troyer, Underground Tech*

### Anatomy of a Service Lateral
03:00 – 03:15 PM

Service lines and proper applications for residential, commercial and industrial customers.

*Geoff Robinson, FJ Martin Co.*

### Treatment Plant Inspections
03:15 – 04:45 PM

Learn what an enforcement inspection will review, what concerns call for an inspection specific to WWTP.

*Larry Fipps, Oregon OSHA*
### WEDNESDAY, OCTOBER 9, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Duration</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>07:30 – 08:00 AM</td>
<td>COFFEE AND DONUTS</td>
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| 08:00 – 10:00 AM | **VFDs – Application 101**  
Learn the proper approach to troubleshooting VFDs, the many facets related to controlling motor speed saving energy where full speed of an electric motor is not required.  
*Nick Coreson, Optimal Control System* | 0.2      |         |
| 10:00 – 10:15 AM | BREAK                                                                    |          |         |
| 10:15 AM – 12:00 PM | **Operator’s Round Table**  
Questions and answers with the OAWU staff around real-life stories on project management, board interaction, and problem solving at your water and wastewater utilities.  
*OAWU Staff* | 0.175  |         |
| 12:00 – 01:00 PM | LUNCH PROVIDED                                                           |          |         |
| 01:00 – 03:00 PM | **Asphalt Use in Utilities: Code of Practices**  
The “why we use” and the “where we use.” We will discuss the most recent innovations; special materials for extended service life, and the latest in the code of practices for asphalt for the water and wastewater industry.  
*Bill Bailey, Lakeside Industries* | 0.2 |         |
| 03:00 – 03:15 PM | BREAK                                                                    |          |         |
| 03:15 – 04:45 PM | **Chemicals for Water/Wastewater Treatment**  
Look at the varied characteristics of water, wastewater that create challenges for operators to deliver high levels of quality water and wastewater effluent using the correct chemicals.  
*Jeff Zachman, Cascade Columbia Distribution* | 0.15 |         |

### THURSDAY, OCTOBER 10, 2019

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| 08:00 – 09:30 AM | **Behind the SCADA Computer**  
Develop an understanding of the control components in a SCADA system, the interface with equipment and what to look for when problems arise.  
*Tim Boyd, The Automation Group* | 0.15     |         |
| 09:30 – 09:45 AM | BREAK                                                                    |          |         |
| 09:45 – 11:00 AM | **GW Rule – Source Protection**  
Groundwater Rule focusing on above and below ground actions: through a look at natural groundwater sources, corrective action approaches, and fixing the problems associated with contaminated sources.  
*Shawn Stevenson, DHS-DWS* | 0.125 |         |
| 11:00 AM – 12:15 PM | **Making Turbidity Meaningful**  
Individual particles that cloud water is caused from high erosion, algae, or suspended solids. What are the levels telling an operator.  
*Zach Cunningham Golik, DHS-DWS* | 0.125 |         |
| 12:15 – 01:15 PM | LUNCH PROVIDED                                                           |          |         |
| 01:15 – 02:30 PM | **Optimizing Goals for Treatment Strategies**  
Share optimization concepts for all types of water treatment, (filtration, practices, sampling) possibly saving money while improving public health.  
*Jay MacPherson, DHS – DWS* | 0.125 |         |
| 02:30 – 02:45 PM | BREAK                                                                    |          |         |
| 02:45 – 04:15 PM | **Pipe Bursting and Piercing Tools**  
History of pipe bursting in the municipal market, proper equipment available for the various types of pipe and the proper use of the tools.  
*Scott Bevens, Ditch Witch West* | 0.15 |         |
| 04:15 – 04:30 PM | **Closing: Workplace Communications**  
To aspire towards successful work days, how do we train ourselves to not only hear, but to listen?  
*Tim Tice, OAWU* | 0.025 |         |