

**Pacific Northwest Pretreatment Workshop  
Virtually, November 2020**



**Presentation and Biographical Information**

Presentation and Speaker biographical information will be used by the Conference Planning Committee to apply for conference Continuing Educational Units (CEU) certification. Biographical information may also be used during speaker introductions. Please e-mail this information to **Andria Swann** at [andrias@sumnerwa.gov](mailto:andrias@sumnerwa.gov) before **September 15, 2020**. If you have any questions, you may contact your PNPW sponsor.

<b>Presentation Title &amp; Abstract:</b>	<p>IMPLEMENTATION OF LOCAL LIMITS AND OTHER COMPLIANCE STRATEGIES TO MEET STRINGENT EFFLUENT COPPER AND ZINC LIMITS</p> <p>This presentation provides an evaluation of various means to comply with stringent WWTP effluent copper and zinc limits. Potential measures considered include: control of industrial sources through of local limits, control of corrosion in the water distribution system and household plumbing, augmentation of wastewater treatment, control of domestic sources, and development of site-specific standards.</p>	
<b>Name &amp; Title</b>	Jay Swift, P.E.	
<b>Employer</b>	Gray and Osborne, Inc.	
<b>Address</b>	1130 Rainier Avenue South, Suite 300 Seattle, WA 98144	
<b>Phone &amp; Fax</b>	206-284-0860, 206-382-3206	
<b>e-mail Address</b>	jswift@g-o.com	
<b># years in field</b>	25	
<b>Professional Association Memberships</b>		
WEF, PNCWA		
<b>Education (degree)</b>	<b>School Name</b>	<b>Year</b>
BS Chemistry	Univ. of Wash.	
BS Biology	Univ. of Wash.	
MSE Env.Engineering	Univ. of Wash.	1997
<b>Work History</b>	<b>Company</b>	<b>Year</b>
Laboratory supervisor	Ionics Resources Conservation	11 years
Engineer	Gray and Osborne	21 years
<b>Other Biographical Information (Interests, Hobbies, etc.)</b>		
Travel, sports, music		

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