

**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 before **September 15, 2020**. If you have any questions, you may contact your PNPW sponsor.

Presentation Title & Abstract:	<u>Enhancing Pretreatment Program with Smart Utilities and Digital Solutions</u> This presentation will discuss the status quo for pretreatment programs across the country, and detail how these programs can be enhanced with digital solutions. These digital solutions include smart sensors which provide real-time and continuous analysis of water quality parameters such as BOD, TSS, COD, nutrients, and pH. This smart utility network can be expanded to serve as an early warning system for the POTW, such as detecting abnormal loadings discharged from industrial users.	
Name & Title	Joshua Balentine, Industrial Pretreatment Program Technical Lead	
Employer	Brown and Caldwell	
Address	5100 Poplar Avenue, 27 th Floor, Memphis, TN 38137	
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e-mail Address	JBalentine@brwnald.com	
# years in field	10	
Professional Association Memberships		
Water Environment Federation		
NACWA		
Water Reuse Association		
Education (degree)		
	School Name	Year
Civil Engineering (B.S.)	University of Memphis	2010
Work History		
	Company	Year
Pretreatment Program Manager/Environmental Engineer	City of Memphis	6 years
Environmental Engineer	Tetra Tech	3 years
Wastewater Engineer	PG Environmental	0.5 years
IPP Technical Lead	Brown and Caldwell	1 year
Other Biographical Information (Interests, Hobbies, etc.)		
Father of 4 kids		
Enjoys riding both mountain and road bikes, hunting, fishing, and being outdoors.		