



Volunteer/Special Instructor Background and Information Form



Presentation Title: The Many Methods of Organic Analysis - What Do They Measure and Which is Right for Your Utility?

Presenter: Carlos Williams Title: Application Development Manager

Date of Birth: 6/29/1970 Emergency Contact: (Name/Phone) _____

Employer: Hach Phone: 970-297-8432

Address: 5600 Lindbergh

City/State/Zip Code: Loveland, CO, 80539

Summary of Lesson Content:

Knowing the organic content of water in different stages of treatment, as well as pre- and post-treatment, can provide many insights into optimization of processes and improved water quality. With all of the different methods of analysis out there, which one is right for the needs of the utility? This session will cover TOC, COD, BOD, UV and SUVA and how they measure organics differently, as well as how one measurement might be used in place of another by means of correlation studies.

Professional Background: (Note: A brief – 2 page maximum – résumé may be attached with the email in lieu of the following data. Please be sure the resume includes all requested information. Qualifications should be related to your presentation.)

Primary Knowledge/Skills/Abilities related to this presentation:

<Bio will be sent separately>

Education (High School, Upgrades, Colleges, Degrees) and Professional Registration/Certification:

Professional Registration/Certification:

Certified Operator in the state of Colorado

Related papers/instruction you have presented:

Title: AWWA Webinar - New Insights and Technologies for Treatment Optimization Date: 6/4/2020 Event: _____

Title: AWWA Webinar - Log Reduction for Drinking Water Production Date: 6/30/2020 Event: _____

Professional Organizations/Activities:

Date: _____

Date: _____

Course Sponsor: _____

Instructor Signature: Carlos Williams Digitally signed by Carlos Williams
Date: 2020.06.29 09:59:29 -0600 Date: 6/29/1970

OESAC Approval:

Date Evaluated: _____

By: _____

UCC Community Education Approval:

Date Evaluated: _____

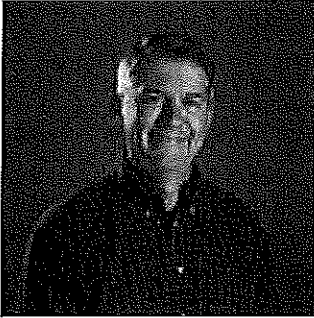
By: _____

Name

Title

Approved: Yes No

Approved: Yes No



Carlos Williams

Applications Development Manager, Hach

- **Carlos Williams** is an Applications Development Manager at Hach, and has 17 years' experience with analytical chemistry in online monitoring and laboratory settings. He built some Hach's first online classes to teach operators and analysts about drinking water, wastewater and industrial analysis and has had the privilege of spending the last 15 years with Hach traveling globally to both lecture on water analysis, and assist treatment facilities in analyzing data, and understanding and improving their processes. He is a certified water professional in the state of Colorado.

