



Florida Society of Environmental Analysts 2021 Fall Conference

October 20-22, 2021

Day 1 - Wednesday October 20, 2021 Workshops

Wednesday Morning Sessions 8:00am – 11:15am (Break 9:30-9:55am)

Workshop 1 – Overcoming Obstacles in Industrial Pretreatment Wastewater Sampling ~0.30 CEUs – Vance Reiman, JEA (Vista Del Mar)

Acquiring representative samples from industrial pretreatment sites can prove challenging. However, adhering to FDEP SOPs and working closely with your internal IP department can help you to overcome your obstacles. This workshop aims to be an interactive session engaging the participants with common issues encountered when collecting industrial pretreatment wastewater samples. Including refined methods of collecting representative samples in accordance with FDEP SOP requirements, highlighting vigilant internal SOP and controlled documents for better quality results, and to be more advantageously suited for audits. Additionally this workshop will provide insight from IP coordinators regarding concerns or advice they may have, further benefiting the collector in acquiring representative samples.

Workshop 2 – QA Manager, Jack of All Trades (includes both a morning and an afternoon session ~0.60 CEUs) – Silky Labie, ELCAT (Plaza Réal A)

The objective of this one-day course is to provide quality assurance managers with tools and suggestions on how to manage an effective quality management system. The material will be based on the requirements outlined in the V1M2 of the 2016 TNI standard and will include lectures on basic quality control assessment tools, delegating responsibility, identifying root cause, implementing effective corrective action strategies. Quality Management from the perspective of the lab manager, lab analyst and lab auditor will be explored. The participants will also take part in group activities that will refine their skills as a quality manager.

Wednesday Mid-day Session/Lunch and Learn 11:30am – 1:30pm

Workshop 3 – Facilitated Peer Mentoring ~0.20 CEUs – Michelle Wade, A2LA Workplace Training (Plaza Réal A)

The idea of peer mentoring is that relationships are developed between people who are at the same career stage where one person may have more experience in a particular topic than another. In this 2-hour session Michelle Wade of A2LA Workplace Training will facilitate a round table discussion amongst session attendees on a variety of environmental laboratory topics which may include but is not limited to any topic in the 2016 TNI Standard and/or common laboratory methods or practices. Attendees should come prepared to ask and answer questions and discuss topics. The perfect session to get ideas and answers on “how do I...” from your peers and colleagues.

Wednesday Afternoon Sessions 1:45pm – 5:00pm (Break 3:00-3:25pm)

Workshop 4 – Sample Documentation and Custody: Don't Just Drop-And-Dash ~0.30 CEUs - John Moorman, SFWMD and Mark Alessandroni, PE, CHMM Markay Consulting Group (repeat from Virtual Spring Conference) (Vista del Mar)

To make sure your samples sail through the laboratory without delay, accurate and complete records and sample custody process are essential when dropping off your samples at sample receiving. Here we will discuss the processes of field documentation and sample submittal to improve the sample receiving process to limit errors and prevent delays.

Workshop 2 (continued) – QA Manager, Jack of All Trades (includes both a morning and an afternoon session ~0.60 CEUs) – Silky Labie, ELCAT (Plaza Réal A)

The objective of this one-day course is to provide quality assurance managers with tools and suggestions on how to manage an effective quality management system. The material will be based on the requirements outlined in the V1M2 of the 2016 TNI standard and will include lectures on basic quality control assessment tools, delegating responsibility, identifying root cause, implementing effective corrective action strategies. Quality Management from the perspective of the lab manager, lab analyst and lab auditor will be explored. The participants will also take part in group activities that will refine their skills as a quality manager.

5:00-6:30pm Reception in Exhibit Area with Hors d'oeuvres and Door Prizes

Day 2 - Thursday October 21, 2021 Technical Sessions in the Plaza Réal A Ballroom - ~0.75 CEUs

8:00am Registration Opens	Grand Colonnade
8:00 – 8:30am Continental Breakfast	Plaza Réal B & C
8:00am – 3:15pm Exhibitor area open	Plaza Réal B & C
12:00 – 1:15pm Lunch (provided)	Grand Colonnade
7:30-10:30pm Scholarship Fundraiser & Social	Vista Del Mar

8:30 – 8:45am *Opening Remarks – Robin Cook, FSEA President*

8:45 – 9:30am *Hosted or On Premises LIMS Solution – Which best fits your laboratory? – Chris Couch, Horizon LIMS*

As LIMS complexity, scalability and capabilities have risen, so have the hosting options. From the perspective of where the software resides, LIMS may be setup in-house/on-premise or be in the Cloud/hosted. Further, for hosted solutions, terms such as PaaS or SaaS are tossed around by IT-centric companies. What does each really mean? In the instance of a LIMS, which fits your laboratory? This talk will provide a straightforward definition of each type of implementation and service and explain the accompanying requirements in terms of hardware and IT support, as well as cover benefits and downsides of each style of LIMS deployment.

9:30-10:15am *Method Optimization for the ICP-OES Analysis of Challenging Environmental Samples from Wastewater to Electronic Waste – Mike Mourgas, ThermoFisher Scientific*

As general industry remains a contributor of toxic elemental contamination in the environment, in this age of rapidly advancing technology and increasing digital communication, the production and disposal of electronic devices are of growing concern. Elemental analysis for environmental protection has extended globally from drinking water, wastewater and soils to electronic wastes, which are analyzed for toxic contaminants and valuable elements for recovery and reuse. This variety and complexity of sample matrices, combined with comprehensive quality control protocol required by EPA Method 200.7 and SW-846 Method 6010, lead to challenges for analysis by ICP-OES. Furthermore, the physical, chemical and spectral interferences from these matrices must be addressed in order to obtain reliable results. This presentation discusses optimizing instrument components and parameters, combined with innovative instrument hardware and software features, to help avoid the negative effects of interferences, and simplify the analysis of challenging environmental samples from wastewater to electronic waste.

10:15–11:00am *BREAK in Exhibit Area – Preserve A and Foyer*

11:00-11:45am *PFAS Regulatory Status and UCMR 5 Proposal Updates for Water Systems - Paul Jackson, Pace Analytical*

EPA is in the process of adding PFOS and PFOA to the SDWA Maximum Contaminant Level list with enforceable limits. There's movement afoot to speed this process up. EPA has until winter 2021 to make changes to its UCMR 5 proposal before it issues the final Rule. During this session you will learn about: When PFOA and PFOS may get added to the SDWA MCL; What will be the likely impact in Year 1 and beyond when PFOA and PFOS are added to the SDWA MCL; UCMR 5 – PFAS will be included again, for a longer list and at lower reporting limits; UCMR 5 test methods and what might change in the final Rule; UCMR 5 sampling schedules; UCMR 5 sampling requirements; UCMR 5 budgetary costs

11:45am-noon *FSEA Business Meeting, Presentation of Fredrick C. Bothe Scholarship for Environmental Studies*

12:00-1:15pm *LUNCH provided in the Grand Colonnade*

1:15-2:00pm *Method 1664 – Solid Phase Extraction and the Benefits of Automation – Joe Boyd, Environmental Express*

This presentation will focus on the requirements of EPA Method 1664 (Hexane Extractable Material) and some of the method compliance issues laboratories face when performing this analysis. A discussion on Solid Phase Extraction (SPE) will be presented along with benefits and potential roadblocks with this analytical technique. Lastly, a discussion on automation, specifically to EPA Method 1664, will be presented.

Day 2 - Thursday October 21, 2021 Technical Sessions in the Plaza Réal A Ballroom (continued)

8:00am Registration Opens	Grand Colonnade
8:00 – 8:30am Continental Breakfast	Plaza Réal B & C
8:00am – 3:15pm Exhibitor area open	Plaza Réal B & C
12:00 – 1:15pm Lunch (provided)	Grand Colonnade
7:30-10:30pm Scholarship Fundraiser & Social	Vista Del Mar

2:00-2:45pm *Standard Methods for the Examination of Water and Wastewater and use in the USEPA federal drinking water program – Jennifer Best, USEPA Office of Ground Water and Drinking Water, Standards and Risk Management Division*

Everything you wanted to know about Standard Methods and then some... (more details to follow soon)

2:45-3:15pm *BREAK in Exhibit Area – Plaza Réal B & C*

3:15-4:00pm *Comparative Results in BOD, Automated vs. Manual Method – Carl Chan, SCP Science*

Biochemical Oxygen Demand tests are performed to determine the amount of dissolved oxygen needed by aerobic biological organisms to break down organic material in a specific water sample. In this experiment, we integrate the *EasyPREP* BOD-300 into the test procedure by providing automated sample preparation and dissolved oxygen measurements. A comparison between a manually performed BOD procedure versus an automated BOD procedure using the BOD-300 instrument was done using glass bottles with glass caps. The bottles were incubated at 20°C for 5 days and results were read on the instrument for both sets of bottles. When comparing the two tables, we can conclude that the automated method performs similarly or even slightly better than the manual method. The automated removal of caps from the bottles was also tested using plastic caps and it showed that the caps provide a good seal and consistent BOD values when using GGA standard solution.

4:00-4:20pm *Regional Meet and Greet – break out into small groups by Region to meet your Regional Director and other region members, offer suggestions for topics you would like to see in your region.*

4:20-5:05pm *Updates from FDOH – Dr. Carl Kircher, Florida Department of Health*

5:05-5:20pm *Door Prize Drawings*

7:30-10:30pm *Join us for a fun evening as we see which teams can escape in the fastest time. We will be hosting an on-site Escape Room followed by karaoke. See our website for more information to register for the Escape Room. The Escape Room will run from 7:45-8:45pm followed by karaoke. No need to register if just coming for the karaoke portion.*

Day 3 - Friday October 22, 2021 Regulatory Sessions in the Plaza Réal A Ballroom ~0.45 CEUs

8:00am Registration Opens	Grand Colonnade
8:00am – 8:30am Continental Breakfast	Grand Colonnade
10:15-10:45am Break	Grand Colonnade

8:30-10:15am *You Asked for it, so here it is... More on MDLs – Valerie Slaven, Valerie Slaven Consulting*

Laboratories are working through the MDL process and continuing to gather large amounts of data, but what do you do with it all? Is your current process working? Is it time to reevaluate what you are doing and how to handle all that data? Do you have questions or need some tips and tricks to be successful? We are here to help you. This course is designed to answer all your questions and ensure you can manage your MDL data successfully and simply.

10:15-10:45am *BREAK in Grand Colonnade*

10:45-11:30am *Updates from FDEP – Kristen Sapp/Sarah Noble, FDEP*

11:30am-1:00pm *Regulatory Forum*

This session will allow attendees to submit questions in advance for our panel to answer. Typical questions include those related to laboratory accreditation, standards, regulatory interpretations and data issues.

Please e-mail your questions to secretary@fsea.net by noon on October 21, 2021 so our panel has time to review the questions and prepare their answers. If time allows, questions may be asked from the floor.

Panel members:

Kristen Sapp or Sarah Noble – FDEP

Robin Cook – Microbiology Expert

Michelle Wade -TNI Chemistry Expert Committee Chair

Dr. Carl Kircher – FDOH

Jennifer Best - EPA

**Save the Date for the 2022 Spring Conference – May 25-27, 2022
at the Sand Key Marriott in Clearwater Beach!**