



Florida Society of Environmental Analysts Spring Meeting and Technical Session May 22 – 24, 2019

Wednesday May 22, 2019 Concurrent Workshop Sessions

8:00am Registration	Foyer
10:00am – 6:30pm Exhibitor area open	Siesta Key, Longboat Key, Foyer
12:00 – 1:00pm Lunch (provided)	
5:00-6:30pm Reception in Exhibit area	Siesta Key, Longboat Key, Foyer

Wednesday Morning Sessions 8:30am – noon

Break in Exhibit Area 10:00-10:30am

Session 1 - Overcoming Obstacles in Industrial Pretreatment Wastewater Sampling (similar to class at Fall meeting) ~0.35 CEUs – Vance Reiman, JEA (Bellair Ballroom)

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.

Session 2 – Are You Overthinking Your QA Program? An interactive workshop aimed at addressing some tips and tricks. ~0.35 CEUs – Robin Cook - TNI Microbiology Expert Committee Chair; Valerie Slaven – TNI Chemistry Expert Committee Chair; Michelle Wade – Wade Consulting and Solutions (Redington Ballroom)

It is not just about checking off a checklist. Understanding the “whys” behind the requirement is important. Florida has been using the NELAC/TNI standard in some form since 1999. As such, Florida programs are more mature. As people are retiring or moving up and on, some of those questions that were seen in the early days of the program are coming around again. Valerie, Michelle and Robin have been involved with the development of the currently used 2016 TNI Standard as part of Chemistry, Quality Systems and Microbiology Committees respectively and have a perspective that can help answer your “whys”. Bring us your questions and let’s see how we can help you keep your QA program effective and robust.

12:00 – 1:00pm LUNCH PROVIDED

Wednesday Afternoon Sessions 1:00 – 5:00pm

Break in Exhibit Area 2:30-3:15pm

Session 3 – Field Quality System and Sample Representativeness ~0.40 CEUs– John Moorman, SFWMD (Bellair Ballroom)

Strengthening Quality Assurance in the field to assure data integrity and limit risk to the organization is critical. This workshop stresses the importance of establishing and strengthening your Field Quality System to better meet FDEP field SOP requirements AND meet the expectations for data quality by management and the public. The core concepts of sample collection representativeness, consistency and traceability in long term datasets will be explored. The workshop will also take a detailed look at sample representativeness. As the most important field data quality objective (DQO), representativeness is the major focus of FDEP SOPs. This assures the resulting data “accurately and precisely represent a characteristic or variation of the source analyte or parameter”. This is crucial regardless of the sampling method, be it Drinking Water, Waste Water, Groundwater or Surface Water.

Session 4 – Let’s Hear from the 3rd Party Assessors ~0.40 CEUs – A2LA, Analytical Excellence, NV5, Shepherd Technical Services and Wade Consulting and Solutions (Redington Ballroom)

This is an opportunity to meet the 3rd Party Assessors and interact with them. The session will start with each company discussing the Top 3 Findings that they encounter while performing assessments. The second half of the session will allow attendees the opportunity to ask questions of the assessors. **You may submit questions in advance by emailing them to secretary@fsea.net just make sure the subject line indicates they are for the 3rd Party Assessor session.**

5:00-6:30pm Reception in Exhibit Area with Hors d’oeuvres and Door Prizes, Student Poster Session

Thursday May 23, 2019 Technical Sessions in the Sand Key Ballroom 0.75 CEUs

8:00am Registration Opens	Foyer
8:00 – 8:30am Continental Breakfast	Siesta Key, Longboat Key, Foyer
8:00am – 3:15pm Exhibitor area open	Siesta Key, Longboat Key, Foyer
12:00 – 1:00pm Lunch (provided)	Watercolour Grillhouse
7:30-10:00pm Scholarship Fundraiser & Social	Longboat Key, Foyer

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

8:45 – 9:30am Legally Defensible Data – Michelle Wade, Wade Consulting and Solutions

The first thought when planning sampling and testing of environmental samples is not generally whether the data is legally defensible, but often is about meeting the frequency and limits of our permit or project requirements. 99% of the time environmental data is never called into question. However; that 1% chance that your environmental data may be utilized in court should be taken into consideration on a regular basis. This presentation will examine the key components to having legally defensible data are: having good samples, having trained staff, proper testing technique, traceability, and good reporting of the results.

9:30-10:15am Troubleshooting for Total Phosphorous and Ortho-Phosphate Colorimetric Testing for Discrete and Segmented Flow Analyzers – Sarah Leibenguth, SEAL Analytical

Total Phosphorous and Ortho-Phosphate are currently tested in many working laboratories. In order to achieve the best results possible for these colorimetric tests, each laboratory should take into consideration chemistry related issues that may be having an impact on their results. These topics include reagent stability and chemical shelf life, matrix matching of sample preparation, reaction interferences, and chemical contamination. The discussion will also be addressing the importance of the pH of samples and reagents and how it effects the overall color development of each reaction. For total phosphorous, we will discuss the differences in digestion protocols, including acid level considerations and consistency in reconstitution.

10:15–11:00am BREAK in Exhibit Area – Siesta Key, Longboat Key and Foyer

11:00-11:45am Revisions to the 2016 TNI Standard Already? – Paul Junio, TNI Consensus Standards Development Committee Chair

The 2016 TNI Standard is just getting started, and there's talk of a revision already? It's okay, this isn't anything that will be happening soon. The process of incorporating ISO 17025:2017 will take some time, but it also offers both regulators and the regulated community time to understand the 'risk' entailed in the updated 17025. This session will have the Chair of the Consensus Standards Development Committee (former Chair of the Quality Systems Committee) talk about what has happened so far in the process, speculate on where the Standard might be headed regarding Technical Manager requirements (among other issues), and take feedback on what the audience might like to see.

11:45am-noon FSEA Business Meeting

12:00-1:15pm LUNCH provided in the Watercolour Grillhouse

1:15-2:00pm Project Management: Communication Breakdown (It's Always the Same!) – Mark Alessandroni, Markay Consulting Group

Laboratory project managers are sometimes lab staff that were promoted or sales professionals charged with managing projects as a function of their position. In either of these cases, as well as many others, these individuals often have no formal training on what it takes to be great, despite the fact they are the critical liaison between the client and the laboratory. This presentation will touch on some of the tenets of administrative and technical project management that have a direct impact on a laboratory clients' success or failure in delivering meaningful environmental or other engineering reports. Administrative topics to be covered include: proposals & contracts, project documentation, invoicing & collections, common challenges, and fundamental traits of great project managers. Technical topics will include: appropriate methods, dilutions and detection limits, preservation & containers, holding times, and accreditation requirements. Examples highlighting the good, the bad, and the ugly will be presented, along with brief discussions of challenges project managers face as well as some ideas to help deal with these challenges.

Thursday May 23, 2019 Technical Sessions in the Sand Key Ballroom 0.75 CEUs (continued)

8:00am Registration Opens	Foyer
8:00 – 8:30am Continental Breakfast	Siesta Key, Longboat Key, Foyer
8:00am – 3:15pm Exhibitor area open	Siesta Key, Longboat Key, Foyer
12:00 – 1:00pm Lunch (provided)	Watercolour Grillhouse
7:30-10:00pm Scholarship Fundraiser & Social	Longboat Key, Foyer

2:00-2:45pm Lab Automation Advances & Trends in the Water/Wastewater Sector – Ken Ochi, ATL LIMS and Ashtan Wydock, City of Boca Raton

This presentation will focus on key advances and trends in laboratory automation and the reasons for their importance. The presentation will also feature the City of Boca Raton and how they have used their LIMS to help address some of these trends. Some of the trends and advances that will be discussed include: TREND- budgets continue to shrink, putting more pressure on public utilities to maintain quality of service with fewer resources. TREND- regulatory compliance requirements continue to put pressure on the laboratory's ability to provide timely and accurate reporting. ADVANCE- The use of mobile technology is providing significant productivity gains along with cost savings in the laboratory. ADVANCE- technologies like barcoding and instrument integration can significantly increase lab productivity and data quality while reducing operational costs. ADVANCE-Commercial labs are gaining a competitive advantage by investing in LIMS with secure web portals to provide real-time access to results and reports. ADVANCE- The maturity of cloud or Software-as-a-Service (SaaS) technologies has resulted in a dramatic increase in SaaS as a compelling LIMS deployment option for many organizations.

2:45-3:15pm BREAK in Exhibit Area – Siesta Key, Longboat Key and Foyer

3:15-4:00pm Fully Automated Microbiological Detection System – Doug Wilton, TECTA-PDS

Tecta-PDS manufactures a unique fully automated microbiological detection system. The Tecta-PDS technology is a directed enzyme-substrate method combined with a polymer partition technology that isolates the optical detection path from the water sample. A presence and absence result can be derived as well as quantitative results. The dynamic range is <1 to $>10^8$. This method detects the presence of *E.coli*, Total Coliforms, Fecal Coliforms, and Enterococcus. Due to the polymer partitioned optical path, results are insensitive to turbidity and color. The Tecta-PDS method allows for no fixed incubation delays in getting results. Results from the test samples can be gained in as little as 2 hours up to 18 hours. The technology is EPA approved under the Safe Drinking Water Act for *E.coli* and Total Coliforms.

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 – Vanessa Soto-Contreras, Florida Department of Health

5:05-5:20pm Door Prize Drawings

7:30-10:00pm Join us for a special evening in the Longboat Key room! We will be holding a Scholarship Fundraiser Corn Hole Tournament and Social. During this event we will also be celebrating the retirements of FSEA's own Keith Kibbey and FDEP's Michael Blizzard. See our website for more information on the Corn Hole Tournament Fundraiser.

Friday May 24, 2019 Regulatory Sessions in the Sand Key Ballroom ~0.45 CEUs

NOTE: Earlier Start Time

7:45am Registration Opens	Foyer
7:45am – 8:15am Continental Breakfast	Longboat Key, Foyer
10:30-11:00am Break	Foyer

8:15-9:00am **Assessing the EPA MUR MDL and TNI 2016 MDL Requirements – Halley Dunn Hastings, NV5**

Detailed discussion of the EPA MDL MUR requirements versus the TNI 2016 requirements including a discussion of expected records and information a laboratory needs to maintain to be in compliance. During assessments, laboratories seem to struggle with maintaining records for demonstrating the MUR MDL and TNI 2016 compliance and are looking for new approaches to comply and manage the record keeping. This session will focus on the following areas: Overview on differences between the EPA MUR MDL and TNI 2016 MDL requirements; Review of records (documents) needed from the laboratory to support initial and continuing MDL; Potential problems and how they will be addressed; Recommendations to seamlessly incorporate new requirements into current laboratory process; Recommendations for making records more usable and easily audited (method, matrix, analyte summaries of MDLs)

9:00-9:45am **MDLs! Aghhh! Interpretation please! – Valerie Slaven, TNI Chemistry Expert Committee Chair**

There have been so many questions or requests for interpretations in regards to the “new” MDL requirements over the course of the last few years. In this presentation we will discuss the answers to the most frequently asked or confusing questions that have been asked.

9:45-10:30am **Purchasing – Why do we care? – Michael Shepherd, Shepherd Technical Services**

Purchasing is an often overlooked and misunderstood portion of laboratory management systems. This presentation will present the requirements, ideas on how to address the requirements, and some examples to show the importance of this element of the management system.

10:30-11:00am **BREAK in foyer**

11:00-11:45am **Updates from FDEP – Michael Blizzard, Florida Department of Environmental Protection**

11:45am-1:15pm **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 May 21, 2019 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:

Michael Blizzard – FDEP

Robin Cook – TNI Microbiology Expert Committee Chair

Paul Junio - TNI Consensus Standards Development Committee Chair

Valerie Slaven -TNI Chemistry Expert Committee Chair

Vanessa Soto-Contreras – FDOH