

Florida Society of Environmental Analysts Spring Meeting and Technical Session May 23-25, 2018



Wednesday May 23, 2018 Concurrent Workshop Sessions

8:00 am Registration
10:00am—6:30pm Exhibitor Area Open to attendees
10:00 - 10:30am Break in Exhibit Area
2:30—3:15pm Break in Exhibit Area
5:00— 6:30pm Reception in Exhibit Area

Foyer
Siesta Key, Longboat Key, Foyer

Wednesday Morning Sessions 8:30—noon

Session 1—Field Quality System and Advanced Field Audit Process ~0.35 CEUs John Moorman, South Florida Water Management District (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 more detailed look at establishing and/or improving your field audit program so it meets your needs and adds value, improves processes and decreases risk for your organization. In addition to the audit process and how to develop your checklist, we will focus on what to do AFTER your audit to identify root causes, verify the corrective actions have been made and prevent them from reoccurring.

Session 2—The Devil is in the Details - Little Known Details about Selected Methods ~0.35 CEUs Michael Shepherd, Mei Beth Shepherd, Michael Hintz - Shepherd Technical Services (Redington Ballroom)

While most labs are very knowledgeable and proficient at most methods, there are some methods that have some tricky details associated with them. Many laboratories may be overlooking these details and exposing themselves to potential findings during an assessment. This presentation intends to address specific requirements in some commonly used methods that are frequently overlooked by laboratories - organics, inorganics/wet chemistry, and microbiology. Further, the presentation will present some findings that may provide some lively discussion.

12:00– 1:00pm LUNCH PROVIDED (for those that RSVP'd in advance ONLY)

Wednesday Afternoon Sessions 1:00– 5:00pm

Session 3— Letting go of Paper: Going Digital with Field Sampling ~0.40 CEUs Josh Gravlin, Collier County Pollution Control and Vance Reiman, JEA (Bellair Ballroom)

Qualitatively, field documentation is an integral aspect to following proper field sampling protocol. Transitioning from paper to electronic documentation may seem daunting, however changing times and technologies are offering new opportunities to improve your field sampling program. From ensuring adherence to FDEP SOPs, updating sampling protocol and operations, to overall quality improvement, all aspects of electronic documentation will be covered. Based on experience from the instructors, this will be an interactive workshop in which attendees will have an opportunity to see how digital documentation can benefit their program. Attendees will be given practical tips and tricks, and be encouraged to ask specific “how-to” questions on for their own operations.

Session 4- Understanding Data Integrity ~0.40 CEUs Silky Labie, ELCAT (Redington Ballroom)

Data Integrity is more than having a laboratory ethics policy. This course will explore the broader meaning of data integrity, identifying procedures that are directly related to data integrity, as well as discussing procedures to implement monitoring for proper data usage.

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

Thursday May 24, 2018 Technical Sessions in the Sand Key Ballroom 0.75 CEUs

8:00 am Registration Opens
8:00 am –8:30am Continental Breakfast
8:00—3:15pm Exhibitor Area Open to attendees
5:05pm Door Prize drawings

Ballroom Foyer
Siesta Key, Longboat Key, Foyer
Siesta Key, Longboat Key, Foyer
Sand Key Ballroom

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

8:45—9:30 am New Test Method for Total Nitrogen - Taylor Reynolds, MilliporeSigma

Currently the USEPA has not promulgated a method for the analysis of Total Nitrogen (TN). Most states that have TN regulations require permittee's to measure TN as the composite of TKN, Nitrate and Nitrite. This approach is costly, time consuming, potentially hazardous and also susceptible to variability based on the methods used for the individual analytes. MilliporeSigma recently concluded a multi-lab validation study in the Iowa to demonstrate the equivalency of a new spectrophotometric test kit that allows users to perform a single test to obtain a result for TN. We will provide a review of the existing test methods; why testing for TN is important; and provide an overview of the new method including accuracy, time to results and an update regarding individual state approvals for the test.

9:30—10:15am EPA Approved Chloride & Sulfate Analysis on Discrete and Segmented Flow Analyzers—Sarah Leibenguth, SEAL Analytical

There are several options for running chloride and sulfate on discrete and segmented flow analyzers that are EPA approved. This discussion will include the principle of these methods, how the analysis takes place on discrete and segmented flow analyzers, method stability, sample types, reagent preparation and storage, reaction interferences, as well as waste disposal consideration and the positives and negatives associated with these methods.

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

11:00—11:45am The Laboratory's Role in Helping to Manage Legionnaires' disease risk - Patsy Root, IDEXX

Labs have been hearing a lot lately about Legionella testing. There are new industry standards out that advise building and cooling tower owners on how to manage their risk of Legionnaires' disease through what's call Water Safety Plans. Additionally, most healthcare facilities are now mandated by CMS Rule to manage their risk associated with waterborne pathogens, including Legionella pneumophila. So, should your lab consider adding testing for Legionella pneumophila? In this talk we will cover who will be requesting this type of testing, why, what tests are available and how to add them to your Scope, and other special technical and legal considerations.

11:45am—noon FSEA Business Meeting

12:00—1:15pm LUNCH located in the Watercolour Grillhouse (provided)

1:15—2:00pm Method Update Rule 2017, An Overview — Jeffrey Wilmoth, USEPA Region 4

The purpose of this presentation is to provide a broad outline of changes that were introduced in the most recent Method Update Rule (MUR) publication. EPA promulgated changes to analytical test procedures that are used by industries and municipalities to analyze the chemical, physical, and biological components of wastewater and other environmental samples that are required by regulations under the Clean Water Act. The changes include revised methods published by EPA and voluntary consensus standard bodies, such as ASTM International and the Standard Methods Committee. EPA added certain methods reviewed under the alternate test procedures (ATP) program to 40 CFR Part 136 and clarified the procedures for Agency approval of nationwide and limited use ATPs. Further, EPA revised the procedure for determination of the method detection limit (MDL). The intent of these revisions were to: provide increased flexibility to the regulated community, improve data quality, update methods to keep current with technology advances, address laboratory contamination issues related to the MDL and better account for intra-laboratory variability.

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2:00—2:45pm **A Geek's Guide to Syringe Filters—Robert Benz, SyringeFilter.com**

Which syringe filters do I use again? Is it hydrophilic or hydrophobic? Which one had chloride background that caused problems on the IC? Is this the best syringe filter for the metals group also? Syringe filters are one of the most commonly used filters in the standard environmental laboratory. Syringe filters are available in an endless array of options in regards to size (4mm, 13mm, 30mm, etc.), type, number and porosity of filter material(s) and sterility. However, the laboratory analyst often does not have the proper training as far as how to effectively select the appropriate filter for the application at hand. This talk, a crash course in syringe filters from A to Z, will discuss all the fine points to make that selection process a much easier, more scientifically valid decision.

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

3:15—4:00pm **Oil and Grease Extractions, A Slippery Slope — Becky Faenza and David Smith, Environmental Express**

The analysis for Hexane Extractable Material (HEM) is a laboratory procedure most commonly performed by liquid-liquid extraction or solid phase extraction. Liquid-Liquid Extraction is the traditional means of separating the analytes, however this procedure comes with its own inherent issues. Solid Phase Extraction is a viable alternative that may help solve some of these issues. Advantages and disadvantages of both methods will be discussed along with other experimental field analysis methods.

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 **Are We There Yet?—Vanessa Soto-Contreras and Dr. Carl Kircher, Florida Department of Health**

ELCP activities are numerous and profound. Different topics become important on a weekly or daily basis. Rule 64E-1 amendments, 2016 TNI Standards, the next contract RFA, a new program to certify cannabis laboratories, emerging analytes and test methods of environmental importance, continuing contract oversight and laboratory customer service, the usual proficiency testing reviews and certification renewals – ELCP attempts to address all these current issues. How do we do it? Together, we'll get there.

5:05pm **Door Prize Drawings**

Friday May 25, 2018 Regulatory Sessions in the Sand Key Ballroom ~0.45 CEUs

8:00 am Registration Opens

8:00 am –8:30am Continental Breakfast

Ballroom Foyer

Siesta Key, Longboat Key, Foyer

8:30—9:30 am ISO Standard Update and how it effects TNI Standard - Paul Junio, TNI Quality Systems Chair

The TNI Quality Systems Committee will be revising Module 2 of the Environmental Laboratory Standard. This revision is being driven by an update to ISO/IEC 17025. In conjunction with the change in 17025, the Quality Systems Committee will be reviewing previous Standard Interpretation Requests (SIRs) and its own 'Parking Lot Document' regarding other items that could be clarified or updated. In addition, this serves as an opportunity for the environmental laboratory community, whether regulators, regulated, or data users, to offer their input on changes. This session will have the Chair of the Quality Systems Committee outlining this process, providing a status report indicating where the Committee is in the process, and taking feedback on the process and the Standard.

9:30—10:30 am Updates from FDEP—Michael Blizzard, FDEP

10:30-11:00 am BREAK in Ballroom Foyer

11:00—1:00pm Regulatory Forum

This session will allow attendees to submit questions in advance for a select panel of representatives from FDOH, FDEP, USEPA and TNI 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 18, 2018 so our panel has time to review the questions and prepare their answers. If time allows questions may be asked from the floor.**

Save the Date for our Fall Meeting and Technical Session
October 24-26, 2018 at the Wyndham Harbourside in Jupiter.