



Florida Society of Environmental Analysts 2023 Spring Conference May 24-26, 2023

Day 1 - Wednesday May 24, 2023 Workshops

7:45am Registration Opens

10:00am –6:30pm Exhibitor area open

12:00 – 1:00pm Lunch (provided)

Foyer

Foyer, Siesta Key Room, Longboat Key Room

Watercolours Restaurant

Wednesday Morning Session 8:15am – 12:00pm (Break 10:00-10:30am)

Workshop 1 – Root Cause Analysis ~0.35 CEUs – Silky Labie, ELCAT (Belleair Room)

Root Cause Analysis is a part of the corrective action process, but is sadly underused or not taken seriously. When used correctly, an RCA provides avenues for improvement as well as identifying the real cause of a problem.

Lunch 12:00-1:00pm – Provided by FSEA

Wednesday Afternoon Session 1:00pm – 5:00pm (Break 3:00-3:30pm)

Workshop 2 – Open Forum on Troubleshooting ~0.4 CEUs – Valerie Slaven - Pace Analytical, Paul Junio – TNI Consensus Standards Development Committee Chair and Pace Analytical, Michelle Wade - TNI Chemistry Committee Chair and Pace Lenexa (Belleair Room)

Are you struggling with a corrective action, method performance issues, or just perplexed about a technical problem? If so bring your problems and let us help to solve them. No problem too big or small. We are here to help. Please email questions/topics in advance to secretary@fsea.net

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

Day 2 - Thursday May 25, 2023 Technical Sessions in the Main Ballroom - ~0.75 CEUs

7:45am Registration Opens	Foyer
7:30am – 8:30am Continental Breakfast	Longboat Key Room
8:00am – 3:15pm Exhibitor area open	Foyer, Siesta Key Room, Longboat Key Room
12:00 – 1:15pm Lunch (provided)	Watercolours Restaurant
6:30-8:30pm Scholarship Fundraiser & Networking	Little Toot Dolphin sunset cruise

8:15 – 8:20am *Opening Remarks – Robin Cook, FSEA President*

8:20 – 9:30am *Managing Measurement Traceability – Michelle Wade, Pace Lenexa*

Ensuring measurement traceability in the laboratory environment can often seem like you're navigating a labyrinth; especially when requirements seem to shift with every revision of a standard or regulation. Understanding some key concepts can help straighten the path from start to finish. This presentation will help define measurement traceability, identify key items that must be traced, and provide examples of ways to maintain measurement traceability. Providing a better understanding of how and why measurement traceability is important, what needs to be traceable, and how to maintain traceability in your laboratory.

9:30 – 10:15am *Best Practices for the analyses of complex samples by ICP-OES and ICP-MS: Streamline workflow for accurate results– Mike Mourgas, Thermo Fisher Scientific*

Trace and ultra-trace analyses of elemental constituents and contaminants in environmental and industrial samples led to the demand for sensitive multi-element techniques such as ICP-OES and ICP-MS. Innovations in instrumentation, enhanced robustness, performance and productivity are important. However, achieving accurate results remains a challenge, especially for complex samples containing suspended and dissolved solids, organic compounds, salts, etc. Systematic errors during preparations, physical interferences from matrix components, and spectral interferences contribute to the challenges. Recommended best practices for the elemental analysis workflow from sample preparation to analysis will be discussed. Learn how streamlining processes within the workflow save time, resources, and help to achieve accurate results and quality data.

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

11:00–11:45am *Cut it With an Axe and Measure it with a Micrometer: How untraceable and non-representative samples can make your data worthless – John Moorman, SFWMD*

Representativeness and traceability are THE most important data quality objectives in the field. We cannot neglect the field aspect of the data collection process. Otherwise the results of non-representative samples could be off by an order of magnitude and untraceable data aren't defensible. Therefore it's imperative we take the field quality system from the SOP page to implementation in the field. Here we will discuss what to do when the laboratory has direct control over the field collection process and discover strategies to use when it does not.

11:45am-noon *FSEA Business Meeting, Introduction of Students participating in our Mentor Program, Shining Star Award – Manager/QA*

12:00-1:15pm *LUNCH provided in the Watercolours dining room*

1:15-2:00pm *Building a Bridge between Operations and Quality – Valerie Slaven, Pace Analytical*

We can all be more successful and do less work if we can learn to work together. Learn the tools and a few tricks to help foster better communication and start to build a collaborative relationship between operations and quality.

Day 2 - Thursday May 25, 2023 Technical Sessions in the Main Ballroom - ~0.75 CEUs (cont)

7:45am Registration Opens	Foyer
7:30am – 8:30am Continental Breakfast	Longboat Key Room
8:00am – 3:15pm Exhibitor area open	Foyer, Siesta Key Room, Longboat Key Room
12:00 – 1:15pm Lunch (provided)	Watercolours Restaurant
6:30-8:30pm Scholarship Fundraiser & Networking	Little Toot Dolphin sunset cruise

2:00-2:45pm *Troubleshooting Total Phosphorous and Ortho-Phosphate Colorimetric Testing on Discrete and Continuous Flow Analyzers – Sarah McFaul, 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. This presentation includes topics such as reagent stability and chemical shelf life, matrix matching, reaction interferences, and chemical contamination. The discussion will also be addressing the importance of the pH of samples and reagents and how it impacts the overall color development of the reaction. For total phosphorous, we will discuss the differences in digestion protocols, including acid level considerations and consistency in reconstitution.

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

3:15-4:00pm *Ways to Use Office for Laboratories – MeiBeth Shepherd, Shepherd Technical Services*

Come to this session to get ideas on ways to use Office products to make life in your laboratory easier. Mei Beth Shepherd, as an assessor, has been in many laboratories and has seen some of the good and bad ways to use Office products. She will share this experience with attendees during this presentation.

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 *The Art of the Audit – Dr. Carl Kircher, FDOH*

5:05-5:15pm *Door Prize Drawings*

6:30-8:30pm *Fredrick C. Bothe Scholarship for Environmental Studies Fundraiser and Networking- Join us for a fun evening as we set sail on the “Little Toot” dolphin watching sunset cruise. We will take the free trolley to and from the hotel to the ship. Meet in the lobby at 6:20pm. Registration required in advance.*

Day 3 - Friday May 26, 2023 Field Workshop and Regulatory Sessions

7:30am Registration Opens	Foyer
7:30 – 8:00am Continental Breakfast	Foyer
10:30-11:00am Break	Foyer

Friday Field Workshop 8:00-11:00am ~0.30CEUs

Workshop 3 – How Groundwater Sampling Techniques & Documentation are Vital to Project Review_~0.30CEUs – Vance Reiman, JEA (Siesta Key Room)

Groundwater sampling requires extensive knowledge of the potential variable conditions within a monitoring well and how to interpret those conditions to collect representative field parameters and groundwater samples in conformance with Florida Department of Environmental Protection's Standard Operating Procedures. It is imperative for the Field Technician to understand the "when and how's" and to properly document the sampling event. Additionally, it is equally important for the Project Manager and Quality Assurance Officer to be able to review the Groundwater Monitoring Logs for accuracy and to understand why a well was sampled a particular way. The focus of this workshop is to instruct Field Technicians when to sample a well using a particular method and how to document accordingly per FL DEP SOPs. Additionally, it intends to train Project Managers and Quality Assurance Officers how to recreate a sampling event with a properly completed Groundwater Monitoring Log.

Friday Regulatory Sessions and Forum 8:00am – 1:00pm ~0.50 CEUs

8:00-8:45am Disney-fying your audit experience – Kaitlyn Reder, KCR Enviro Tech & MeiBeth Shepherd, Shepherd Technical Services

Audits are a stressful time for both the auditors and the audited. In this session we will explore how to add magic, dreams and wonder to the experience. So that when conflicts do arise resolution is a procedure that is easy to remember. With an open mind and a little preparation I know your audit experience can be totally transformed.

8:45-9:30am Standard Methods 24th Edition is out. What's new with this version, and exciting updates to the Standard Methods Organization – William Lipps, Shimadzu and Standard Methods Joint Editorial Board (chief editor for the 24th Edition)

The new version of Standard Methods, Standard Methods for the Examination of Water and Wastewater 24th Edition has been published. Find out about the new and revised methods, which we will cover Part by Part. In addition, we have updated the website and the Standard Methods organization. This presentation will explain how the Standard methods organization works, how methods are revised, how new methods developed and how you can get involved and participate.

9:30-10:30am Revisions to the TNI Standards – Paul Junio, TNI Consensus Standards Development Committee Chair and Pace Analytical

The TNI Standards are in the process of being revised. These revisions are due to changes in ISO 17011, ISO 17025, and realizations that there are improvements that can and should be made in the various technical modules. The presenter will provide a status report on the revision process for each Module, pointing out highlights of the changes proposed, in addition to taking feedback from attendees on the process.

An important aspect of this process is that these changes, once made by TNI, don't become requirements until they have been approved by Accrediting Bodies.

10:30-11:00am BREAK in Foyer

11:00-11:45am Updates from FDEP – Kristen Sapp, FDEP

11:45am-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 Wednesday May 24th 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/Sarah Noble - FDEP

Robin Cook (moderator) – Microbiology Expert, TNI Microbiology Committee Member

Paul Junio – TNI Consensus Standards Development Committee Chair

Michelle Wade -TNI Chemistry Expert Committee Chair

Dr. Carl Kircher – FDOH

**Save the Date for the 2023 Fall Conference – November 7-9, 2023
at the Daytona Beach Hilton! NOTE: the date change and due to the Veteran's
Day holiday, the conference will be Tuesday to Thursday instead of Wednesday
to Friday.**