



SEAL Webinar Series

Below is a list of all available webinars performed by SEAL Analytical. For more information about the topics covered during the webinar, click on the title.

Troubleshooting Colorimetric

- Troubleshooting Colorimetric Testing
- Troubleshooting Colorimetric Determination of NO₃ + NO₂
- Troubleshooting Colorimetric Determination of oP + TP
- Troubleshooting Colorimetric Determination of NH₃ + TKN
- Troubleshooting Colorimetric Determination of Chloride, Sulfate, and Total Alkalinity

Discrete Analyzer Troubleshooting Series

- Part 1: General Hardware Discussion and Evaluating Diagnostic Tests
- Part 2: Getting the Most Out of AQ Software

Troubleshooting for Continuous Flow Analyzers

- Part 1: Basic Operation and Functionality
- Part 2: Getting the Most Out of AACE Software
- Part 3: Advanced Troubleshooting for SFA Systems

Market Specific

- Seawater Forum
- Focus on Soils

BOD

- BOD Automation



Colorimetric

Troubleshooting Colorimetric Testing

This complimentary webinar provides an introduction to chemistry troubleshooting for nitrate + nitrite, silica, ammonia, as well as ortho-phosphate and total phosphorous colorimetric testing.

This session is applicable to testing with flow analyzers, discrete analyzers, and manual methods. We will discuss how the colorimetric reaction takes place, method stability, applicable sample types, reagent preparation and storage, reaction interferences, as well as other considerations associated with these methods.

Troubleshooting Colorimetric Determination of NO₃ + NO₂

This complimentary webinar includes a discussion of available colorimetric tests for Nitrate + Nitrite testing and focuses on troubleshooting techniques to optimize results.

This session is applicable to testing with flow analyzers, discrete analyzers, and manual methods. We will discuss how the colorimetric reaction takes place, method stability, applicable sample types, reagent preparation and storage, reaction interferences, as well as other considerations associated with these methods.

Troubleshooting Colorimetric Determination of oP + TP

This complimentary webinar includes a discussion of available colorimetric tests for o-Phosphate and Total Phosphorus testing and focuses on troubleshooting techniques to optimize results.

This session is applicable to testing with flow analyzers, discrete analyzers, and manual methods. We will discuss how the colorimetric reaction takes place, method stability, applicable sample types, reagent preparation and storage, reaction interferences, as well as other considerations associated with these methods.

Troubleshooting Colorimetric Determination of NH₃ + TKN

This complimentary webinar includes a discussion of available colorimetric tests for Total Kjeldahl Nitrogen and Ammonia testing and focuses on troubleshooting techniques to optimize results.

This session is applicable to testing with flow analyzers, discrete analyzers, and manual methods. We will discuss how the colorimetric reaction takes place, method stability, applicable sample types, reagent preparation and storage, reaction interferences, as well as other considerations associated with these methods.



Troubleshooting Colorimetric Determination of Chloride, Sulfate, and Total Alkalinity

This complimentary webinar includes a discussion of available colorimetric tests for Chloride, Sulfate and Total Alkalinity testing and focuses on troubleshooting techniques to optimize results.

This session is applicable to testing with flow analyzers, discrete analyzers, and manual methods. We will discuss how the colorimetric reaction takes place, method stability, applicable sample types, reagent preparation and storage, reaction interferences, as well as other considerations associated with these methods.

Discrete Analyzer Troubleshooting Series

Part 1: General Hardware Discussion and Evaluating Diagnostic Tests

This complimentary webinar series will be a deep dive into troubleshooting techniques for Discrete Analyzers from SEAL Analytical. In the first part we will take a look at general hardware items including the probe wash assembly, the cuvette, the peristaltic pumps, and the syringe. We will also discuss running and evaluating MD and Dye Tests, and how we can use the hardware techniques we went through to improve our results.

Part 2: Getting the Most Out of AQ Software

This complimentary webinar series will be a deep dive into troubleshooting techniques for Discrete Analyzers from SEAL Analytical. In this second part we will take a closer look at AQ Software to help simplify navigation and to ensure you are taking advantage of all of the features and tools available. Specifically we will look at Sample Blanking, advanced QC-Pro settings, review options available in Scheduling and Data Review, and take a closer look at the Calibration section of the software. Finally, we will take a look at the latest tool: Smart Auto-Dilutions, and how to take advantage of it in AQ Software.

Troubleshooting for Continuous Flow Analyzers

Part 1: Basic Operation and Functionality

This complimentary webinar series will act as a troubleshooting guide for continuous flow analyzers and applies to both segmented flow and flow injection systems!

Part one of this series will discuss the basics of operation, the functionality of each component of the instrument, and the role of each module. We will also discuss troubleshooting tips to ensure that the instrument is working correctly; including checking for proper flow and bubble pattern, checking the system connections and waste lines, as well as typical maintenance and cleaning routines.



Part 2: Getting the Most Out of AACE Software

This complimentary webinar series will act as a troubleshooting guide for continuous flow analyzers.

In this second part we will take a closer look at the AACE software package provided with Segmented Flow Analyzers from SEAL Analytical. This webinar will help simplify navigation and to ensure you are taking advantage of all available features and tools. Specifically, we will discuss view chart options, recalculating data, creating and sending data packages, and calibration options.

Part 3: Advanced Troubleshooting for SFA Systems

This complimentary webinar series will act as a troubleshooting guide for segmented flow analyzers.

In part three of this series we will discuss advanced troubleshooting for segmented flow analyzers (SFA). This discussion will focus on the importance of peak shape, recognizing peak shape variations, and troubleshooting tips to address underlying issues related to changes in peak shapes. Also, the importance of baseline and gain sensitivity, baseline noise and drift, and absorbance changes throughout the run will be addressed. Finally, we will end with some troubleshooting tips specific to ammonia, nitrate + nitrite, silica, and phosphate methods.

Market Specific

Seawater Forum

This complimentary Seawater Forum will be a discussion focused on the specific challenges and troubleshooting techniques for seawater and oceanography testing.

SEAL Analytical is honored to welcome Malcolm Woodward, of Plymouth Marine in the UK, and Susan Becker, from Scripps Institute of Oceanography in the US, to the panel for this session! Between the two of them they offer decades of knowledge and experience working with nutrient testing in seawater. They will help us navigate (pun intended!) through some of your questions as they can offer real-world insight into techniques they have used to address the challenges of working with seawater samples.

The session will open with a short review of important hardware and chemistry concepts to keep in mind to help improve overall method performance, and then we will open up the panel for thorough discussions of a wide variety of seawater and oceanographic related topics.



Focus on Soils

This complimentary webinar includes a discussion of automation for testing soil samples in the laboratory. Techniques discussed will include sample preparation and digestion options, as well as different technologies for nutrient analysis, such as colorimetric analysis on discrete and flow analyzers, and the use of a flame photometer. The webinar will include automated options for testing pH and conductivity.

BOD

BOD Automation

This complimentary webinar includes a discussion of troubleshooting techniques for Biochemical Oxygen Demand. This session is applicable to both manual and automated BOD testing. We will discuss necessary hardware, sample pre-treatment, seeding, dilution water, incubation, and nitrification inhibition.