

# Analyzer Technology Conference Program

April 13 - 17, 2026

Galveston Island Convention Center

*"Analytical Solutions by the Sea"*

Date/Time	Session /Topic	Title	Location
<b>MONDAY APRIL 13, 2026 TRAINING SESSIONS</b>			
7:00 am		Continental style breakfast	Convention Center Lobby
7:30am - 5:00pm	Registration	Symposium and Short Course Registration	Convention Center Lobby
8:00am - 8:15am	Track 1 and 2	<b>Fundamentals of Process Analysis Track 1 and 2</b>	Galleon I and II
	Welcome	Introductions for Training Safety Moment, Agenda Review & Class Protocol	
		<i>J.C. Arenes, Stuart Simmonds - Moderators</i>	
8:15am - 9:30am		<b>Fundamentals of Process Analysis Session 1</b>	
	Track 1	1.1 Fundamentals of Sample Extraction and Conditioning - Michael Hoffman, Valmet	Galleon I
	Track 2	2.1 Fundamentals of Spectroscopy - Bob Bear, Ametek	Galleon II
9:30am - 10:45am		<b>Fundamentals of Process Analysis Session 2</b>	
	Track 1	1.2 Fundamentals of Mass Spectrometry - Monique Mahoney-Ashberry, Process Insights	Galleon I
	Track 2	2.2 Fundamentals of Combustion Analysis - J.C. Arenes, Novatech	Galleon II
10:45am - 11:00am	Break		Reception Hallway
11:00am - 12:00pm		<b>Fundamentals of Process Analysis Session 3</b>	
	Track 1	1.3 Fundamentals of Gas & Flame Detection - Sam Loyacano - Teledyne Gas & Flame	Galleon I
	Track 2	2.3 Fundamentals of Moisture & Dew Point Measurements - John Kerney - Ametek	Galleon II
12:00pm - 1:00pm	Lunch		Reception Hallway
1:00pm - 2:15pm		<b>Fundamentals of Process Analysis Session 4</b>	
	Track 1	1.4 Fundamentals of Physical Property Analysis - Corentin Thierry, Bartec	Galleon I
	Track 2	2.4 Fundamentals of Water Quality Analysis - Ryan Crews, M4 Knick and Benny Mattejiet, Process Insights	Galleon II
2:15pm - 2:30pm	Break		Reception Hallway
2:30pm - 3:45pm		<b>Fundamentals of Process Analysis Session 5</b>	
	Track 1	1.5 Fundamentals of Oxygen Analysis - Stuart Simmonds, Novatech	Galleon I
	Track 2	2.5 Fundamentals of Gas Chromatography - Al Kania, Valmet	Galleon II
3:45pm - 4:00pm	Conclusion		Reception Hallway
5:00pm - 7:00pm		Vendor Hall and Happy Hour	Technology Pavillion

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8:00am - 4:00pm		<b>Advanced Training - Track 3.</b>	Galleon III
		<b>Sample Conditioning Systems</b> - Steve Smith, CGS Fabrication Servies, Inc.	
		This course provides a detailed exploration of process sample systems, focusing on key principles, design considerations, and practical applications. Participants will gain an understanding of the importance of accurate datasheets, essential sample system terminology, and critical calculations such as wake frequency, lag time, solubility, and the Joule-Thomson effect. The course includes overviews of vapor, liquid, and vaporizing sample systems, along with sparger systems and vent gas mitigation strategies. Walkthroughs of typical systems, hardware functions, and a dedicated Q&A session ensure a practical and interactive learning experience. Perfect for professionals looking to enhance their knowledge and skills in sample system design and operation.	
8:00am - 4:00pm		<b>Advanced Training - Track 4.</b>	Yacht Room
	08:00am - 12:00pm	<b>Spectroscopy / Chemometrics</b> - Bryan Bowie, Exxon Mobil and Randy Bishop, JP3	
		<p><b>Morning: Good Vibrations - An Introduction to Infrared and Raman Spectroscopy</b> Unlock the potential of advanced spectroscopic techniques in the petrochemical, oil, and gas industries with this comprehensive training course. "Good Vibrations" explores the principles, techniques, and applications of Infrared and Raman Spectroscopy, tailored specifically for industry professionals. The course covers:</p> <ul style="list-style-type: none"> <li>•Tunable Diode Laser Spectroscopy (TDLAS): Including Cavity Ringdown for high-sensitivity measurements.</li> <li>•Near Infrared (NIR) and Mid Infrared (MIR) Spectroscopy: Practical approaches for chemical analysis and process monitoring.</li> <li>•Fourier Transform Techniques (FTIR and FT-NIR): Enhancing spectral resolution and speed.</li> <li>•Raman Spectroscopy: Ideal for molecular identification and structural analysis.</li> </ul> <p>Learn how these powerful tools can optimize processes, ensure product quality, and enhance operational efficiency in real-world applications. Whether you're new to spectroscopy or looking to deepen your expertise, this course is your gateway to a deeper understanding of these critical technologies. Join us to harness the power of vibration-based analysis for better decision-making in the petrochemical world.</p> <p><b>Afternoon: Chemometrics</b> This course provides an introduction to chemometrics, with a focus on essential techniques for analyzing and interpreting complex data. Participants will begin with an accessible overview of basic linear algebra, laying the groundwork for understanding key concepts. The course then explores Principal Component Analysis (PCA) for dimensionality reduction and visualization, followed by multivariate modeling techniques including Multivariate Linear Regression (MLR), Principal Component Regression (PCR), and Partial Least Squares (PLS). Advanced methods are briefly discussed to provide insights into cutting-edge applications. Perfect for professionals and students aiming to harness the power of data in analytical and</p>	
8:00am - 2:00pm		<b>Advanced Training - Track 5.</b>	Spinnaker Room
		<b>Flares and Fenceline Rules – US EPA Regulatory Workshop - Focus on Monitoring.</b> Troy Boley and Herman Holm, Spectrum Environmental Solutions	
		Spectrum will present a regulatory overview of the new US EPA "HON" rule with a keen focus on both flare instrumentation and the fenceline monitoring requirements. The rule review will present the requirements for demonstrating routine compliance and will expand into a discussion of event thresholds and the need for root cause corrective action and enhanced monitoring. The flare review will educate attendees on the overlap of current and new flare requirements across multiple industry sectors. The fenceline discussion will cover the minimum requirements of the sorbent tubes and canister sampling, but also highlight enhanced monitoring instrumentation for when exceedances are discovered. With decades of experience, your instructors will apply practical and pragmatic experience to these complex regulatory topics.	
4:00pm - 5:00pm	ATC	<b>Analyzer Technical Conference Inc. Business Meeting</b> <i>Business and Annual Board Meeting</i>	Spinnaker Room
5:00pm - 7:00pm		<b>Vendor Exhibit Tables</b> <i>Hospitality and Welcome to ATC 2026</i>	Technology Pavilion - Exhibit Hall A/B

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TUESDAY APRIL 14, 2026 - CONFERENCE DAY 1

7:00am - 8:00am	Attendee	Attendee Breakfast	Prefunction Area Grand Ballroom
7:30am - 5:00pm	Registration	Symposium Registration	Convention Center Lobby
7:30am - 5:00pm	Visitors	VIP Visitors Day	The Technology Pavillion - Exhibit Hall A/B
7:30am - 5:00pm	Speakers	Speakers Room - Preparation and Practice (Projector and Screen provided)	Helm Room
8:00am - 5:00pm	Spouses Program	Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 7:30am - 10pm)	Check in at Registration
Date/Time	Session	Paper Title - Author - Presenter	Location
8:00am - 8:15am	General Session	Welcome Introduction - Stuart Simmonds, (ATC Symposium Chair)	Grand Ballroom
8:15am - 9:45am	General Session	Session 1 - Session Moderator:	
	01-01-01	Direct Quantification of Etching Bath Components Using Extended-Range Raman Spectroscopy Elena Hagemann and Dariana Martinez	
	01-01-02	Utilization of Quadrupole Mass Spectrometry for Analysis of Phosgene in Ambient Air Monique Mahoney-Ashberry, Jenee Johnston, Chris Williams and Chuck DeCarlo	
	01-01-03	Development of a 1064 nm Raman Platform for Low Fluorescence Analysis of Heavy Distillate Streams William Girten, Giancarlo Aguirre, Dakota Merriles and Kevin Flusche	
9:45am - 10:30am	Break	Vendor Exhibit Tables	Technology Pavillion - Exhibit Hall A/ B
10:30am - 12:00pm	General Session	Session 2 Moderator: JC Arenes	Grand Ballroom
	01-02-01	Improving Refinery Flare Monitoring Through Optimized Heating Value Measurement and Sampling Design Reza Modarres	
	01-02-02	A New Way to Measure Octane: Lab & Process with CVCC Autoignition Technology Connor Douglas	
	01-02-03	QX Hybrid Analysers: The Future of Multi-Component Continuous Gas Analysers S I Olsson Robbie, R E Howieson, B L Livingstone	
12:00pm - 1:00pm	Lunch	Vendor Exhibit Tables	Technology Pavillion - Exhibit Hall A/ B
1:00pm - 2:30pm	General Session	Session 3 - Moderator: Bill Stahl	Grand Ballroom
	01-03-01	New Generation NIR Spectrometer for Natural Gas Measurement Jie Zhu, Randy Bishop, Jordan Dwellle, Ronnie Dove, Paul Little and Tom Redlinger	
	01-03-02	Automating ASTM Spectroscopy Validation Brian Rohrback, Scott Ramos and Randy Pell	
	01-03-03	CO2 Measurement for Carbon Capture, Use and Sequestration – Analytical Quality Requirements Alan Bryant	
2:30pm - 3:15pm	Break	Vendor Exhibit Tables	Technology Pavillion - Exhibit Hall A/ B
3:15pm - 4:45pm	General Session	Session 4 Session Moderator: Justin Journey	Grand Ballroom
	01-04-01	Use of Aluminum Oxide Sensor in Oil & Gas, Semiconductor, and Power Applications Lozos Konstantinou	
	01-04-02	Ion Selective Electrode Vs. UV-VIS Spectroscopy after gas stripping for Ammonium monitoring in Water Dr Urelle Biapo and Dr Katsunobu Ehara	
	01-04-03	Next-generation Online Trace Moisture Measurement Aniruddha Weling, Gary Parece, Yufeng Huang, Napoleon Beauvais, Jose Zamudio, Pushkal Thapa, Sean Kearney, John Sweeney, Anthony Kowal, Jon Chow, and Gerard Mckeogh	
9:00am - 6:30pm		Vendor Exhibit Tables	Technology Pavillion - Exhibit Hall A/ B
5:00pm - 6:30pm		Reception in the Technology Forum	Technology Pavillion - Exhibit Hall A/ B

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## WEDNESDAY APRIL 15, 2026 - CONFERENCE DAY 2

7:00am - 8:00am	Attendee	Attendee Breakfast	Prefunction Area Grand Ballroom
7:30am - 5:00pm	Registration	Symposium Registration	Convention Center Lobby
7:30am - 5:00pm	Visitors	VIP Visitors Day	The Technology Pavilion - Exhibit Hall A/B
8:00am - 5:00pm	Spouses Program	Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 7:30am - 10pm)	Check in at Registration
Date/Time	Session	Paper Title - Author - Presenter	Location
8:00am - 8:15am	General Session	Welcome Introduction - Stuart Simmonds, (ATC Symposium Chair)	Grand Ballroom
8:15am - 9:45am	General Session	Session 5 Session Moderator: Wes Carter	
	02-05-01	Measurement of Wastewater Analytes Using High-Throughput Raman Spectroscopy Michael Shea, Shaun Fraser and Nathan Simonds	
	02-05-02	Real-Time Raman Spectroscopic Monitoring of Acid Gas Loading in Amine Systems Dakota Merriles	
	02-05-03	Critical Considerations for Successful In-Situ Liquid Process Sampling for Spectroscopy Ryan Lerud	
9:45am - 10:30am	Break	Vendor Exhibit Tables	Technology Pavilion - Exhibit Hall A/B
10:30am - 12:00pm	General Session	Session 6 Session Moderator: Grant Merriman	Grand Ballroom
	02-06-01	Calorific Value Measurement of Fuel Gases With and Without Hydrogen Ryo Okamoto	
	02-06-02	AI-Driven Enhanced Predictive Maintenance for Online Process Analyzers Wolter Last	
	02-06-03	Flammability Measurement of Inerted Industrial Waste Streams Chris Grieshaber and Debra Hall	
12:00pm - 1:00pm	Lunch	Vendor Exhibit Tables	Technology Pavilion - Exhibit Hall A/B
1:00pm - 2:30pm	General Session	Session 7 Session Moderator: Tim Kuiken	Grand Ballroom
	02-07-01	Modern Maintenance Approaches in Process Analytics: Bridging Scheduled Interventions and Data-Sarah Wolff	
	02-07-02	Process Analyzers: The Missing Link in Reliable AI Optimization for Hydrocarbon and Hydrogen Gregory Shahnovsky, Gadi Briskman and Greg Yakhnin	
	02-07-03	Development of a Small Language Model Tailored for Analytical Equipment and Associated Waseem Akram	
2:30pm - 3:15pm	Break	Vendor Exhibit Tables	Technology Pavilion - Exhibit Hall A/B
3:15pm - 4:45pm	General Session	Session 8 Session Moderator: Victor Cardozo	Grand Ballroom
	02-08-01	Purged Lip Sealing Valve Technology for Improved Performances in Gas Chromatography Marc-Antoine Langevin and André Lamontagne	
	02-08-02	Molecules on the move, a study of ionization methods and their relative advantages for the analysis Daniel Merriman	
	02-08-03	From Days to Minutes: Enabling Immediate Response with Real-Time Low-Level Ethylene Oxide Dr. Matthew McCormick, PhD	
9:00am - 6:30pm		Vendor Exhibit Tables	Technology Pavilion - Exhibit Hall A/B
5:00pm - 6:30pm		Reception in the Technology Forum	Technology Pavilion - Exhibit Hall A/B

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## THURSDAY April 16th, 2026- CONFERENCE DAY 3

7:00am - 8:00am	Attendee	Attendee Breakfast	Prerunction Area Grand Ballroom
7:30am - 5:00pm	Registration	Symposium Registration	Convention Center Lobby
8:00am - 5:00pm	Spouses Program	Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 7:30am - 10pm)	Check in at Registration
Date/Time	Session	Paper Title - Author - Presenter	Location
8:00am - 8:20am	General Session	Welcome and Introduction - Stuart Simmonds, (ATC Symposium Chair)	Grand Ballroom
8:20am - 9:50am	General Session	Session 9 Session Moderator: Rod Merz	
	03-09-01	Continuous Fenceline Monitoring of Ethylene Oxide with FTIR Spectroscopy under the HON MACT Fabiano de Melas and Bertold Arlitt	
	03-09-02	Trace Moisture Detection at High Pressures Incorporating a Compact GaAs-Based VCSEL Array Bartosz Kaminski, Grzegorz Sek and Pawel Kluczynski	
03-09-03	Intrinsic Safety in Process Automation: Application to Process Analyzers in Hazardous (Classified) Michael Frank		
9:50am - 10:30am	Break	Vendor Exhibit Tables	Technology Pavilion - Exhibit Hall A/B
10:30am - 12:00pm	General Session	Session 10 Session Moderator: Hampton Stapleton	Grand Ballroom
	03-10-01	Time Domain NMR: A New Paradigm in Process Control for Sodium in Foods and Beverages Dan Kroll	
	03-10-02	On-Line Crude Oil Analysis for Refinery Feedstock Optimization Dmitri Chernokozinsk, Ariel Kigel and Gregory Shahnovsky	
03-10-03	Real-Time Overhead Water Monitoring: Lessons from a Crude Unit Case Study Kraig Kmiotek, Kristopher Kohl, Brett Lane and Nichol Scarborough		
12:00pm - 1:15pm	Lunch	Vendor Exhibit Tables	Technology Pavilion - Exhibit Hall A/B
1:15pm - 2:30pm	General Session	Session 11 Session Moderator: Joshua Christian	Grand Ballroom
	3-11-1	Open forum conversation on future ATC and business practices Survey on what is done well and what needs work. ATC Business meeting MOM read for participants knowledge	
	2:30pm	ATC Business - TBA	
3:30pm		Best paper Award - Session moderator Bac vu Closing Remarks - Stuart Simmonds (ATC Symposium Chair)	Grand Ballroom

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## FRIDAY April 17th, 2026 - VENDOR TRAINING CLASSES

7:30am		Continental style breakfast	Convention Center Lobby
7:30am - 4:30pm	Registration	Vendor Training Registration	Convention Center Lobby
8:00am - 12:00pm	Spouses Program	Spouses Lounge - Tours, Shopping, Site-Seeing, & Recreation (open from 8:00am - noon)	Check in at Registration
12:00pm - 1:00pm	Lunch		
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8:00am - 12:00pm		ABB - GC Training: Conventional to Modular	Galleon I
	Session 1	Jason Lynn GCP100 basic How-to and ease of use hands-on experience with reference to the PGC5000 for difficult applications.	
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8:00am - 12:00pm		Process Insights - Technologies for Flare Gas Compliance	Galleon II
	Session 2	Monique Mahoney-Ashberry and Ryan Lerud The Process Insights Quadrupole Mass Spectrometer, Flare Gas Total Sulfur Analyzer, and Zero-Emissions Calorimeter training session will provide the student with the knowledge to set up, troubleshoot, and maintain the analyzers while also covering topics such as installation and application considerations. This class is well suited for analyzer technicians, analyzer project managers, and analyzer engineers.	
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8:00am - 4:00pm		Valmet - Maxum II Training Class	Yacht Room
	Session 3	Valmet personnel  This training session will cover several highly requested maintenance topics for the MAXUM II GC as well as hardware demonstrations using the several GCs that will be available in the class. The GCP maintenance software will be also reviewed, and attendees are encouraged to bring their laptops as temporary GCP licenses will be available for direct hands-on training. For current users of the MAXUM II GC, attendees should bring their questions and AMD files to the class as the second part of the training session will be focused on attendee interest to discuss any specific topics they wish cover.	
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8:00am - 12:00pm		Emerson - Rosemount 470XA Gas Chromatograph and QX1000 Continuous Gas Analyzer	Harbor Room
	Session 4	Trever Ball, Mike Nott, Sarah Calhoun, Bradley Hogan, and Stefan Robbie Olsson  This session will introduce Emerson's new Rosemount 470XA Gas Chromatograph and examine where the 470XA can be deployed including the emerging applications in hydrogen production and blending as well as carbon capture. As part of this training we will also examine common issues, troubleshooting, and maintenance practices for the 470XA and 700XA products. We will also look at the Mon2020 software that is used to configure, maintain, and troubleshoot Emerson's family of Gas Chromatographs.	
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8:00am - 12:00pm		Yokogawa - TDJ8000	Galleon III
	Session 5	Yokogawa personnel  This Yokogawa TDLS 8000 series analyzer training session will provide the student with the knowledge to trouble shoot and maintain the analyzer while also covering topics such as installation and application considerations. This class is well suited for analyzer technicians, analyzer project managers, and analyzer engineers.	
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8:00am - 12:00pm		Galvanic - AccuSeries Wet Chemistry Analyzer and ProTech 903	Clipper Room
	Session 6	Steve Stodulski and Sunpreet Arora  The two-hour AccuSeries Analyzer training course provides a focused introduction to the operation and fundamentals of Galvanic's AccuSeries wet-chemistry analyzers. Participants will gain an understanding of analyzer architecture, measurement principles including colorimetry, titration, and ion-selective electrodes, and the complete sample analysis sequence. The course covers basic startup, normal operation, and key components such as fluidics, sensors, and electronics. Emphasis is placed on practical knowledge to support routine operation, basic troubleshooting, and effective interaction with the analyzer's local interface and control system.  The two-hour ProTech903 Analyzer training course provides a focused overview of Galvanic's sensing tape based gas analyzer for H <sub>2</sub> S/total sulfur, Arsine/Phosphine, Phosgene and Chlorine. Participants will learn the fundamental principle of operation, including tape chemistry, optical detection, and analysis algorithms. The course covers analyzer components, normal startup and operation, basic configuration concepts, and alarm functionality such as Predictive Alarm Analysis. Emphasis is placed on practical operator awareness to support reliable measurements, routine interaction with the local interface, and effective response to common operational conditions encountered in gas processing and pipeline applications	