

Annual Calibration Exchange (ACE)

Best Practices for safety, efficiency, reliability, and quality

September 19-20th, 2018

California Polytechnic University

Kellogg West Conference Center & Hotel

Pomona, CA, USA

Day 1 Schedule: Wednesday, September 19th

Time	Title	Presenter
7:45 AM	<i>Breakfast & registration</i>	
8:30 AM	Welcome	
8:45 AM	Calibration and transformation in the automation workforce	Walt Boyes, Spitzer & Boyes
9:30 AM	Is it time to calibrate your calibration program?	George Lister, Del Mar College
10:15 AM	<i>Break</i>	
10:30 AM	FDA Data Integrity Guidance as it relates to compliance in calibration	Mike Uhrin, Par Pharmaceutical
11:15 AM	Keys to an effective calibration program	Roy Tomalino, Beamex
12:00 PM	Lunch	
1:00 PM	How to integrate your calibration system into your SCADA system for real-time feedback and monitoring	Daniel Martin, Nestle
1:45 PM	<i>Break</i>	
2:00 PM	Roundtable open discussion	SME Leaders
3:00 PM	Closing remarks	
3:30 PM	Networking reception	

Day 2 Schedule: Thursday, September 20th

Time	Title	Presenter
7:45 AM	<i>Breakfast & check in</i>	
8:30 AM	Welcome	
8:45 AM	How to calibrate an RTD	Ned Espy, Beamex
9:30 AM	Pressure Calibration Workshop	SME leaders
11:00 AM	<i>Break & Technology Forum</i>	SME leaders
12:00 PM	Lunch	
1:00 PM	Traceability & paperless calibration	
1:45 PM	Optimizing calibration intervals	Sami Koskinen, Beamex
2:30 PM	<i>Break & Technology Forum</i>	
3:00 PM	Experience sharing and open discussion	SME leaders
3:30 PM	Closing remarks	

Presentation descriptions

Calibration and the transformation in the automation workforce

Walt Boyes, Principal, Editor & Publisher, Spitzer & Boyes

Technology, the increasing speed of business and the requirement for measurable business value are all forces that have and will influence how calibration is performed and managed. Another one of the biggest influencers is the ageing workforce and the lack of skilled workers available to replace them as they retire. Join this discussion as visionary, Walt Boyes, with more than 40 years of experience with instrumentation, lays out some predictions for the future and gives you some ideas on how to manage a successful calibration program in today's fast-moving world.

Is it time to calibrate your calibration program?

George Lister, Program Coordinator/Instrumentation, Del Mar College

Have you been doing things the same way just because "this is how we've always done it"? Does implementing a new system or improvement seems too time consuming or expensive? This presentation highlight some key indicators that suggest it may be time to change your process and will show how a process improvement can save you time and create a big return on investment.

FDA Data Integrity Guidance as it relates to Compliance in Calibration

Michael Uhrin, Director of Engineering Services, Par Pharmaceutical

Although the Data Integrity is a pretty old concept, it has recently become more important due to new regulations from agencies like the Food and Drug Administration (FDA), as well as increasingly stricter auditor requirements. ALCOA and ALCOA Plus are key acronyms of Data Integrity. Learn from Mike Uhrin, an expert with a decade of experience, about these acronyms and other general information about Data Integrity and Calibration to effectively manage it at your facility.

Keys to an effective calibration program

Roy Tomalino, Engineer & Calibration Evangelist, Beamex

Do you know why you use certain calibration tolerances and intervals? It's not always an easy answer as many factors come into play, such as legacy systems, old habits, available tools and many more. This discussion will outline the importance of understanding the variables and the necessary elements to consider for an effective calibration program.

How to integrate your calibration system into your SCADA system for real-time feedback and monitoring

Daniel Martin, Electrical and Automation Engineer, Nestle Dreyer's Ice Cream

Calibration data is critical to the success of any program and managing that data is sometimes difficult. Instruments are wired to run equipment; however we constantly place the data about the instrument only in a calibration software or some offline record. This makes managing calibrations more difficult to execute due to issues in the field being separate from the SCADA or process control monitoring. With the complexity of platforms, Daniel will introduce a few methods that can be deployed on almost any local HMI or SCADA platform. Organization of data and how to present it is the first step, but keeping that data consistent is the trick and often the disconnect in our systems. This presentation

is meant for engineers, automation technicians, engineering managers, or anyone who is supporting the calibrations program on their site.

Roundtable open discussion

All presenters

Join an engaging conversation with your peers and industry leaders to discuss the challenges you are facing right now. The toughest situations will be examined, giving you the opportunity to learn how others have overcome similar dilemmas and tactics you can apply immediately to resolve them.

How to calibrate a RTD

Ned Espy, Technical Director, Beamex

Maybe you know that in resistance and RTD (Resistance Temperature Detector) measurement you can use 2, 3 or 4 wires, but maybe you don't really remember what the difference is between them, or how these connections really work. This presentation will explain the best way to calibrate RTDs.

Pressure calibration workshop

SME leaders

In a typical process plant, over 60% of instrument applications involve pressure. Pressure instrumentation maintenance is a critical and daily task, yet proper procedures for managing and calibrating these instruments are often overlooked or not understood. Learn how to use a documenting calibrator with built in HART communication to easily calibrate pressure transmitters. Discover how, with advanced technology, pressure switches can be calibrated with the push of one button. This hands-on workshop will walk you through pressure calibrations, step by step, including re-ranging, calibrating, and trimming.

Traceability and paperless calibration

Speaker TBD

Today's modern process plants, production processes and quality systems put new and tight requirements on the accuracy of process instruments and process control. Quality systems, such as ISO9000 and ISO14000, call for systematic and well-documented calibrations. Therefore, calibrations must be traceable. Join this presentation to find out how to make sure your calibrations meet the most common traceability requirements.

Optimizing calibration intervals

Sami Koskinen, Director of Global Accounts, Beamex

One of the most frequently asked questions is how often a customer should calibrate instruments. Unfortunately, there is no straight answer to this, at least not one that is always correct. Instead there is a list of variables that should be taken into account when deciding the calibration period for any measurement device. This presentation will explore these variables and equip you with guidelines for determining calibration intervals.

**Experience sharing and open discussion
SME Leaders**

Join an engaging conversation with your peers and industry leaders to discuss the challenges you are facing right now. The toughest situations will be examined, giving you the opportunity to learn how others have overcome similar dilemmas and tactics you can apply immediately to resolve them.