

# MSC TRAINING SYMPOSIUM

## Event Program



### Presidents Message

Welcome to the 2026 MSC Training Symposium. The 2026 theme is: Training—Training—Training. We, as an industry, need to double down on training. We must pass down as much knowledge as possible to the next generation of calibration engineers and technicians.

*Michael Schwartz, President*



### Symposium Course Overview

#### Monday

February 2

##### Tutorial Workshops

Full Day

**T01, T02, T03, T04**

Half Day AM

**T05**

Half Day PM

**T06**

##### NIST Seminars

1 Day: **N01, N04**

Welcome Reception

#### Tuesday

February 3

##### Tutorial Workshops

Full Day

**T07, T14**

Half Day AM

**T08, T09, T11, T21, T23**

Half Day PM

**T16, T17, T18, T25**

##### NIST Seminars

2 Day: **N02, N03**

Exhibitor Reception

#### Wednesday

February 4

##### Tutorial Workshops

Full Day

**T10, T13**

Half Day AM

**T12, T20, T24**

Half Day PM

**T19**

##### Technical Sessions

1A, 1B/SP1

2A, 2B/SP2, 2C, 2D

3A, 3B/SP3, 3C, 3D

4A, 4B/SP4, 4C, 4D

President Reception

#### Thursday

February 5

##### Tutorial Workshops

Half Day AM

**T22**

##### Technical Sessions & Hands-On Workshop

5A, 5B/SP5, 5C

6A, 6B/SP6, 6C

AI Plenary

### Monday — February 2 Agenda

<b>7:00 AM</b>	<b>Registration: Garden Foyer, N Tower</b>	<b>12:00 PM</b>	<b>Luncheon: Garden 4, N Tower</b>
<b>7:00 AM</b>	<b>Breakfast: Garden 4, N Tower</b>	<b>1:15 PM</b>	<b>Courses Resume</b>
<b>8:00 AM</b>	<b>Courses Start</b>	<b>3:00 PM</b>	<b>PM Break: Garden 4, N Tower</b>
<b>10:00 AM</b>	<b>AM Break: Garden 4, N Tower</b>	<b>6:00 PM</b>	<b>Evening Reception: Garden 4, N Tower</b>

## Exhibit Hall Hours

Wednesday: 7:00 AM-5:00 PM, Thursday: 7:00 AM-12:00 PM

## NIST Seminars | Monday, February 2 | 8:00 AM

### N01 An Introduction to Time and Frequency Metrology

Instructors: Andrew Novick & Benjamin Pera, NIST

Garden 2, N Tower

### N04 Introduction to Humidity and Trace Moisture Measurement

Instructor: Chris Meyer, NIST

Salon VIII, N Tower

## Tutorial Sessions Full Day | Monday, February 2 | 8:00 AM

### T01 "The Book" on Resistance, from 0.1 Micro Ohm through 100 TeraOhm Measurements

Speaker: Tim Stark, Guildline Instruments

Harbor Rm, N Tower

### T02 Level 1 Temperature

Speaker: Josh Mitchell, SINE Calibration

Pacific Rm, N Tower

### T03 General Metrology Fundamentals

Speaker: Zachary Saleet, Garber Metrology

Salon I, N Tower

### T04 Level 1 Pressure

Speaker: Jared Ford, In-Cal

Garden 3, N Tower

## Tutorial Sessions AM | Monday, February 2 | 8:00 AM

### T05 Test Uncertainty—the Revolution in Evaluating Measurement Uncertainty

Speaker: Jim Salsbury, Mitutoyo America

Salon VII, N Tower

## Tutorial Sessions PM | Monday, February 2 | 1:15 PM

### T06 Risk Management—Application of Tools for Oversight, Assessment, & Control

Speaker: Mark Lindsey, Disney

Salon VII, N Tower

## Tuesday — February 3 Agenda

7:00 AM	Registration: <a href="#">Grand Foyer</a>	12:00 PM	Luncheon + Speaker: <a href="#">Grand Hall E-G</a>
7:00 AM	Breakfast: <a href="#">Garden Foyer</a>	1:15 PM	Courses Resume
8:00 AM	Courses Start	3:00 PM	PM Break: <a href="#">Grand Foyer</a>
10:00 AM	AM Break: <a href="#">Garden Foyer</a>	5:30 PM	Exhibitors Reception: <a href="#">Grand Hall A-D</a>

## NIST Seminars | Tuesday, February 3 | 8:00 AM

### N02 Pressure and Vacuum Measurements

Instructors: Jacob Ricker & Chris Meyer, NIST

Day 1

[Garden 3, N Tower](#)

### N03 Hands-On Workshop on Assessing and Reporting Measurement Uncertainty

Instructors: Jack Prothero & Caitlin Berry, NIST

Day 1

[Salon V, N Tower](#)

## Tutorial Sessions Full Day | Tuesday, February 3 | 8:00 AM

### T07 Level 1 RF and Microwave

Speaker: Marc Albert, Avalon Test Equipment

Garden 4, N Tower

### T14 Metrology 101: Back to Basics

Speaker: Tim Mason

Harbor Rm, N Tower

## Tutorial Sessions AM | Tuesday, February 3 | 8:00 AM

### T08 GXP Metrology: A Strategic Approach to Biopharma Calibration Process Management

Speaker: Miguel Cerezo, Kite Pharmaceuticals

Salon I, N Tower

### T09 Mass and Mass Related Metrology: Fundamentals & Uncertainty Contributor Calculations

Speakers: Yvette Volschenk & Anna Escarcega, ANAB

Salon VII, N Tower

### T11 Standards Driven Training Systems in Calibration Laboratories

Speaker: Helena Stevens

Salon VI, N Tower

### T21 Uncertainty FUNdamentals & Application

Speaker: Mark Ruefenacht

Garden 2, N Tower

### T23 Precision In Practice: Mastering the 55XX Calibrator Family & the 8588A Reference Multimeter

Speakers: Richard Roddis & Marty Conway

Pacific Rm, N Tower

## Tutorial Sessions PM | Tuesday, February 3 | 1:15 PM

### T16 Hands-On Dimensional Calibration, focused on small tools like calipers & micrometers

Speakers: Jeff Meyerholz & Jim Salsbury, Mitutoyo America

Salon I, N Tower

### T17 RF Metrology: Fundamentals and Uncertainty Contributor Calculations

Speakers: Anna Escarcega & Yvette Volschenk, ANAB

Salon VII, N Tower

### T18 PT/ILC Strategy for (Accredited) Calibration Laboratories

Speaker: Giulia Suriani

Salon VI, N Tower

### T25 Conductivity

Speaker: Jason Burns, Mettler Toledo

Salon IV, N Tower

## Wednesday — February 4 Agenda

7:00 AM	Registration: <a href="#">Grand Foyer</a>	12:15 PM	Luncheon + Speaker: <a href="#">Grand Hall E-G</a>
7:00 AM	Breakfast: <a href="#">Grand Hall A-D</a>	1:30 PM	Courses Resume
7:00 AM	Exhibit Hall Open: <a href="#">Grand Hall A-D</a>	3:00 PM	PM Break: <a href="#">Grand Hall A-D</a>
8:00 AM	Courses Start	5:30 PM	President's Reception: <a href="#">Grand Hall G</a>
10:00 AM	AM Break: <a href="#">Grand Hall A-D</a>		

## NIST Seminars | Wednesday, February 4 | 8:00 AM

### N02 Pressure and Vacuum Measurements

Instructors: Jacob Ricker & Chris Meyer, NIST

Day 2

Garden 3, N Tower

### N03 Hands-On Workshop on Assessing and Reporting Measurement Uncertainty

Instructors: Jack Prothero & Caitlin Berry, NIST

Day 2

Salon V, N Tower

## Tutorial Sessions Full Day | Wednesday, February 4 | 8:00 AM

### T10 HEPA Certification Tutorial

Speaker: Michael Islas

Salon VII, N Tower

### T13 Level 1 Electronics

Speaker: Matt Goodrich, SINE Calibration

Garden 4, N Tower

## Tutorial Sessions AM | Wednesday, February 4 | 8:00 AM

### T12 Deadweight Pressure Testers

Speaker: Scott Crone

Harbor Rm, N Tower

### T20 Risk Management and Management System Improvement Methodologies

Speaker: Prasanth S Ramakrishnan, MS Leed-AP

Salon VI, N Tower

### T24 GWP: Good Weighing Practices

Speaker: Ian Ciesniewski, Mettler

Pacific Rm, N Tower

## Tutorial Sessions PM | Wednesday, February 4 | 1:30 PM

### T19 Dry Block Calibrators—Construction, Evolution, Theory, and Practical Use

Speaker: Scott Crone

Harbor Rm, N Tower

## NIST Seminars PM | Wednesday, February 4 | 1:30 PM

### N08 Introduction to Photonic Sensing and Optical Based Sensors

Instructor: Kevin Douglass, NIST

Pacific Rm, N Tower

## Hands-On Tech Sessions | Wednesday, February 4 | 8:45 AM

	Salon I	Garden 2	Salon VIII	Salon IV
Session 1 8:45 - 10:00am	<b>1A</b> Artificial Intelligence & Metrology Digitization  Speakers: Mike Schwartz & Jeff Gust	<b>1B/SP1</b> Digital Multimeter Calibration, Hands-On  Speakers: Jack Somppi & Jesse Morse		
Session 2 10:45 - 12:00pm	<b>2A</b> Quality Assurance  Speakers: Mark Lindsey & Mike Melendez	<b>2B/SP2</b> Fundamentals of Gas Flow Calibration  Speakers: Jeff Grossman & Tim Francis	<b>2C</b> Hand Pumps, Pressure Fittings & Hoses  Speaker: Bill Ridler	<b>2D</b> Thermal Imaging Binoculars  Speaker: Reza Sadeghi
Session 3 1:45 - 3:00pm	<b>3A</b> How to Demonstrate Fit for Purpose  Speaker: Jane Weitzel	<b>3B/SP3</b> Practical Pressure Calibration  Speakers: Kurt Stridinger & Scott Crone	<b>3C</b> Liquid Flow  Speaker: Steven Garia	<b>3D</b> Night Vision Goggles  Speaker: Reza Sadeghi
Session 4 3:45 - 5:00pm	<b>4A</b> Holistic View of Measurement Quality & Decision Rules  Speaker: Jim Salsbury	<b>4B/SP4</b> Temperature Calibration Explained  Speaker: Travis Porter	<b>4C</b> Thermal Mapping vs. Continuous Mapping  Speaker: Quy Tran	<b>4D</b> How to Complete an IAS 17025:2017 Audit  Speaker: Prasanth S Ramakrishnan

## Thursday — February 5 Agenda

7:00 AM	Registration: <b>Grand Foyer</b>	8:00 AM	Courses Start
7:00 AM	Exhibit Hall Open: <b>Grand Hall A-D</b>	10:00 AM	AM Break: <b>Grand Hall A-D</b>
7:00 AM	Breakfast: <b>Grand Hall A-D</b>	12:15 PM	Luncheon + Scholarships: <b>Grand Hall E-G</b>

### Tutorial Sessions AM | Thursday, February 5 | 8:00 AM

#### T22 Measurement Quality Documentation Records

Speaker: Emily Purchase

**Garden 3, N Tower**

### Hands-On Tech Sessions | Thursday, February 5 | 8:45 AM

	<b>Salon I</b>	<b>Garden 2</b>	<b>Salon VIII</b>
Session 5 8:45 - 10:00am	<b>5A</b> How to Measure a Calibration Operation's Overall Performance Part 1  Speaker: Jesse Morse	<b>5B/SP5</b> IndySoft Enterprise Asset Manager (IAM) Training Session  Speakers: Mitchell Jones & Nick Bates	<b>5C</b> Pipette Calibration Speaker: Larry Newman
Session 6 10:45 - 12:00pm	<b>6A</b> How to Measure a Calibration Operation's Overall Performance Part 2  Speaker: Jesse Morse	<b>6B/SP6</b> MET/CAL Procedures and Procedure Authorizing in CalStudio  Speaker: Michael Johnston	<b>6C</b> Practical Temperature Calibration Speaker: Kurt Stridinger & Scott Crone

### AI Plenary | Thursday, February 5 | 1:45 PM

#### Artificial Intelligence and Its Use in Metrology

Speakers: Mike Schwartz, Michael Brown, Ly Phey & Kevin Mastriano

**Pacific Rm, N Tower**

### Keynote Speakers

<b>TUESDAY</b>	<b>Embracing the Struggle: A Plan for Addressing Training Needs in Calibration Laboratories</b> Helena Stevens	<b>Grand Hall E-G</b>
<b>WEDNESDAY</b>	<b>Fit for Purpose: Metrology, the United States Pharmacopeia &amp; Measurement Uncertainty</b> Jane Weitzel + Woodington Award	<b>Grand Hall E-G</b>
<b>THURSDAY</b>	<b>Foundations of Quality Management from Deming to AI</b> Catherine Martin + Scholarships	<b>Grand Hall E-G</b>

## FREE Sponsored Content Sessions | Wednesday, February 4 | 8:45 AM

<b>1B/SP1</b>	<b>Digital Multimeter Calibration</b> Speakers: Jack Sommipi, Meatest & Jesse Morse, Morse Metrology	<b>Garden 2, N Tower</b>
<b>2B/SP2</b>	<b>Fundamentals of Gas Flow Calibration</b> Speakers: Jeff Grossman & Tim Francis, Fluke	<b>Garden 2, N Tower</b>
<b>3B/SP3</b>	<b>Practical Pressure Calibration</b> Speakers: Kurt Stridinger & Scott Crone, Ametek	<b>Garden 2, N Tower</b>
<b>4B/SP4</b>	<b>Temperature Calibration Explained: History, Standards, and How to Build a Complete Solution</b> Speaker: Travis Porter, Fluke	<b>Garden 2, N Tower</b>
<b>5B/SP5</b>	<b>IndySoft Enterprise Asset Manager (IAM) Training Session</b> Speakers: Mitchell Jones & Nick Bates, IndySoft	<b>Garden 2, N Tower</b>
<b>6B/SP6</b>	<b>MET/CAL Procedures and Procedure Authoring in CalStudio</b> Speaker: Michael Johnston, Fluke	<b>Garden 2, N Tower</b>

### Thank You to Our Sponsors!

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### MSC Training Symposium

<https://mscconf.com/>

Information: 866 - 672 - 6327

