



# NCSL International Workshop & Symposium Registration Form 2019

Huntington Convention Center | 100 Lakeside Ave East | Cleveland, Ohio

**August 24 - 29, 2019**

Conference Language: English / Conference Currency: USD

## Attendee Registration Form

NCSL International Membership ID Number \_\_\_\_\_  Non-Member

First Name \_\_\_\_\_ Last Name \_\_\_\_\_

Company \_\_\_\_\_ Job Title \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip+4/Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Email \_\_\_\_\_ Telephone \_\_\_\_\_

### *Metrology in Motion: Monday, August 26 – Thursday, August 29*

**Full Registration includes: Exhibitor Welcome Reception, Exhibit Hall Events; Luncheons on Tuesday and Wednesday, Metrology Mixers, Technical Program, Learning Labs, Thursday Keynote Breakfast, Conference Materials Bag, Committee Meetings and Lots of Networking!**

	<b>Member</b>	<b>Non-member</b>			
<input type="checkbox"/> Full Conference Registration	\$1,235	\$1,445			
Late Rate (Begins July 1, 2019)	\$1,450	\$1,645			
<input type="checkbox"/> One Day Conference Registration	\$420	\$475	Tuesday	Wednesday	Thursday
Late Rate (Begins July 1, 2019)	\$520	\$575	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Luncheon Ticket	\$50	\$50			

Tutorial Program Registration Below. (Additional Paid Workshops - not included in Conference Registration)

## CANCELLATION POLICY

NCSLI Conference, Tutorials and Related Events: Cancellations received in writing before 5:00 p.m. (EST) on July 1, 2019, will be subject to a service charge of \$50 per registration. No refunds will be issued for cancellations received after 5:00 p.m. (EST) on July 1, 2019. Registrations may be transferred from one party to another by written request received by August 10, 2019.

## FOR OFFICE USE ONLY

Name: \_\_\_\_\_ Batch # \_\_\_\_\_ Date: \_\_\_\_\_

Payment received: \_\_\_\_\_ PO/Inv. #: \_\_\_\_\_ Amount: \_\_\_\_\_

**NOTE: Email addresses will be used in regular NCSL International communications. You will be given the choice to opt out at any time.**

**NCSL International | 5766 Central Avenue, Suite 150 | Boulder Colorado 80301 | 303-440-3339**

**Tutorial Program Registration Rates (Paid Workshops sold separately from Full Registration)**

	Regular Rate Member/Non	Late Rate Member/Non
<p><b>Track: Metrology Management</b></p>		
<p><input type="checkbox"/> <b>Active Asset Management</b> Saturday, August 24   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tmm-1</p>	\$500/\$600	\$550/\$650
<p><input type="checkbox"/> <b>Understanding Instrument Specifics</b> Sunday, August 25   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tmm-2</p>	\$500/\$600	\$550/\$650
<p><input type="checkbox"/> <b>Effective Calibration Interval Analysis</b> Monday, August 26   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tmm-3</p>	\$500/\$600	\$550/\$650
<p><b>Track: Metrology Engineers</b></p>		
<p><input type="checkbox"/> <b>The NIST Uncertainty Machine and the NIST Consensus Builder</b> Saturday &amp; Sunday, August 24 &amp; 25   8:00 AM – 5:00 PM   16 Hours Course Catalog Number: Tme-1</p>	\$700/\$800	\$750/\$850
<p><input type="checkbox"/> <b>Measurement Uncertainty: Fundamental Applications</b> Saturday, August 24   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tme-2</p>	\$500/\$600	\$550/\$650
<p><input type="checkbox"/> <b>Sample Size Calculations: Practical Methods for Engineers and Scientists</b> Saturday, August 24   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tme-3</p>	\$500/\$600	\$550/\$650
<p><b>Track: Risk Management</b></p>		
<p><input type="checkbox"/> <b>Decision Rules and Making Statements of Compliance with Confidence</b> Saturday, August 24   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Trm-1</p>	\$500/\$600	\$550/\$650
<p><input type="checkbox"/> <b>Risk Based Thinking in Metrology</b> Sunday, August 25   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Trm-2</p>	\$500/\$600	\$550/\$650
<p><input type="checkbox"/> <b>Understanding Pass/Fail Measurement Decision Risk and How to Comply with ISO/IEC 17025:2017</b> Monday, August 26   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Trm-3</p>	\$300/\$400	\$350/\$450

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<p><b>Track: Accreditation</b></p> <p><input type="checkbox"/> <b>An Introduction to the ILAC Policy (P Series) and Guidance (G Series) Documents: A Peek Behind the Accreditation Body Curtain</b> Saturday, August 24   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tac-1</p> <p><input type="checkbox"/> <b>Auditing, Traceability, and Auditing of Traceability to <i>ISO/IEC 17025:2017</i></b> Monday, August 26   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tac-2</p> <p><input type="checkbox"/> <b>Approaches to Nonconforming Work and Corrective Actions for <i>ISO/IEC 17025:2017</i></b> Monday, August 26   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Tac-3</p>	<p>\$500/\$600</p> <p>\$500/\$600</p> <p>\$300/\$400</p>	<p>\$550/\$650</p> <p>\$550/\$650</p> <p>\$350/\$450</p>
<p><b>Track: Dimensional Measurements</b></p> <p><input type="checkbox"/> <b>Dimensional Uncertainties Hands-on Course</b> Saturday &amp; Sunday, August 24 &amp; August 25   8:00 AM – 5:00 PM   16 Hours Course Catalog Number: Tdm-1</p> <p><input type="checkbox"/> <b>Introduction to Dimensional Calibration</b> Monday, August 26   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tdm-2</p>	<p>\$700/\$800</p> <p>\$500/\$600</p>	<p>\$750/\$850</p> <p>\$550/\$650</p>
<p><b>Track: Pressure Measurements</b></p> <p><input type="checkbox"/> <b>Pressure Calibration and Expanded Uncertainty</b> Sunday, August 25   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tpm-1</p> <p><input type="checkbox"/> <b>Industrial Pressure Calibration and Measurements</b> Monday, August 26   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Tpm-2</p>	<p>\$500/\$600</p> <p>\$300/\$450</p>	<p>\$550/\$650</p> <p>\$350/\$450</p>
<p><b>Track: Mass Measurements</b></p> <p><input type="checkbox"/> <b>Automic and Robot Efficiency Gains for the Modern Mass Metrology Lab</b> Sunday, August 25   1:00 PM – 5:00 PM   4 Hours Course Catalog Number: Tma-1</p> <p><input type="checkbox"/> <b>Your Weigh to Best Weighing Practices</b> Monday, August 26   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Tma-2</p>	<p>\$300/\$400</p> <p>\$300/\$400</p>	<p>\$350/\$450</p> <p>\$350/\$450</p>

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<p><b>Track: Thermodynamic Measurements</b></p> <p><input type="checkbox"/> <b>Thermometry Sensors, Instruments, and Calibration</b> Saturday, August 24   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Ttm-1</p> <p><input type="checkbox"/> <b>Infrared and Radiation Thermometry Fundamentals</b> Sunday, August 25   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Ttm-2</p> <p><input type="checkbox"/> <b>Fundamentals of Humidity Measurement</b> Sunday, August 25   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Ttm-5   Pairs with Ttm-6</p> <p><input type="checkbox"/> <b>Relative Humidity Generation for Calibration</b> Sunday, August 25   1:00 PM – 5:00 PM   4 Hours Course Catalog Number: Ttm-6   Pairs with Ttm-5</p> <p><input type="checkbox"/> <b>Fundamentals of Temperature Measurement and Calibration</b> Monday, August 26   8:00 AM – 12:00 PM   4 Hours Course Catalog Number: Ttm-3   Pairs with Ttm-4</p> <p><input type="checkbox"/> <b>Advanced Topics of Temperature Measurement and Calibration</b> Monday, August 26   1:00 PM – 5:00 PM   4 Hours Course Catalog Number: Ttm-4   Pairs with Ttm-3</p>	<p>\$300/\$400</p> <p>\$300/\$400</p> <p>\$300/\$400</p> <p>\$300/\$400</p> <p>\$300/\$400</p> <p>\$300/\$400</p>	<p>\$350/\$450</p> <p>\$350/\$450</p> <p>\$350/\$450</p> <p>\$350/\$450</p> <p>\$350/\$450</p> <p>\$350/\$450</p>
<p><b>Track: Electrical Measurements</b></p> <p><input type="checkbox"/> <b>Time and Frequency Measurements Using GPS</b> Saturday, August 24   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tem-1</p> <p><input type="checkbox"/> <b>RF Power Sensor Linearity Calibration</b> Saturday, August 24   1:00 PM – 5:00 PM   4 Hours Course Catalog Number: Tem-2</p> <p><input type="checkbox"/> <b>AC Current and Resistance Measurements and Principles</b> Sunday, August 25   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tem-3</p> <p><input type="checkbox"/> <b>Josephson Voltage Standard for Primary SI Realization</b> Sunday, August 25   8:00 AM – 5:00 PM   8 Hours Course Catalog Number: Tem-4</p>	<p>\$500/\$600</p> <p>\$300/\$400</p> <p>\$500/\$600</p> <p>\$500/\$600</p>	<p>\$550/\$650</p> <p>\$350/\$450</p> <p>\$550/\$650</p> <p>\$550/\$650</p>

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<p><b>Track: Flow Measurements</b></p> <p><input type="checkbox"/> <b>Gas &amp; Liquid Flow Measurement Fundamentals</b>                      Saturday, August 24   8:00 AM – 5:00 PM   8 Hours                      Course Catalog Number: Tfm-1   Pairs with Tfm-2 and Tfm-3</p> <p><input type="checkbox"/> <b>Uncertainty Analysis: Coriolis Mass Flow Meters</b>                      Sunday, August 25   8:00 AM – 12:00 PM   4 Hours                      Course Catalog Number: Tfm-2   Pairs with Tfm-1 and Tfm-3</p> <p><input type="checkbox"/> <b>Uncertainty Analysis: Liquid Flow Rig Measurement</b>                      Sunday, August 25   1:00 PM – 5:00 PM   4 Hours                      Course Catalog Number: Tfm-3   Pairs with Tfm-1 and Tfm-2</p>	<p>\$500/\$600</p> <p>\$300/\$400</p> <p>\$300/\$400</p>	<p>\$550/\$650</p> <p>\$350/\$450</p> <p>\$350/\$450</p>
<p><b>Track: Software &amp; Computer Systems</b></p> <p><input type="checkbox"/> <b>Fully Automated ISO/IEC 17025:2017 Meter Calibrations in Metrology.NET®</b>                      Saturday, August 24   8:00 AM – 5:00 PM   8 Hours                      Course Catalog Number: Tsc-1</p>	<p>\$500/\$600</p>	<p>\$550/\$650</p>
<p><b>Track: Force Measurements</b></p> <p><input type="checkbox"/> <b>Improving the Accuracy of Dynamic Force Measurements</b>                      Sunday, August 25   8:00 AM – 12:00 PM   4 Hours                      Course Catalog Number: Tmf-1</p> <p><input type="checkbox"/> <b>Force Calibration Short Course</b>                      Sunday, August 25   1:00 PM – 5:00 PM   4 Hours                      Course Catalog Number: Tmf-2</p> <p><input type="checkbox"/> <b>Force Calibration for Everyone with a Focus on Measurement Errors and Risk</b>                      Monday, August 26   1:00 PM – 5:00 PM   4 Hours                      Course Catalog Number: Tmf-3</p>	<p>\$300/\$400</p> <p>\$300/\$400</p> <p>\$300/\$400</p>	<p>\$350/\$450</p> <p>\$350/\$450</p> <p>\$350/\$450</p>
<p><b>Track: Torque Measurements</b></p> <p><input type="checkbox"/> <b>Imagine your Torque Calibrations are not as accurate as you think they are: Chances are they're not!</b>                      Monday, August 26   8:00 AM – 12:00 PM   4 Hours                      Course Catalog Number: Ttq-1</p>	<p>\$300/\$400</p>	<p>\$350/\$450</p>
<p><b>Track: Sensors</b></p> <p><input type="checkbox"/> <b>Dynamic Sensors and Calibration</b>                      Monday, August 26   8:00 AM – 12:00 PM   4 Hours                      Course Catalog Number: Tsm-1</p>	<p>\$300/\$400</p>	<p>\$350/\$450</p>

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## SPECIAL ACCOMMODATIONS

- Please check here if you require special ADA, wheelchair
- Dietary needs, please note the only alternative meal option offered at this time is a vegetarian plate

## PAYMENT INFORMATION

Credit Card     Check #: \_\_\_\_\_     PO Number: \_\_\_\_\_    Total: \_\_\_\_\_

Full name as it appears on card: \_\_\_\_\_

Card#: \_\_\_\_\_ Exp. Date: \_\_\_\_\_ V-code \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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