



# NCSLI Canada Division Meeting 2019 PROGRAM

November 5<sup>th</sup>, 6<sup>th</sup> & 7<sup>th</sup>, 2019

National Research Council, 100 Sussex Drive, Ottawa, Ontario, Canada

NCSLI is a professional, member-based organization, aimed at enhancing the understanding, application, and advancement of measurement science across a broad range of disciplines.



Members include individual professionals, business groups, national and international measurement bodies, educators, and students... serving the **world of measurement**.

## MISSION

To provide the best opportunities for the world's measurement science experts and practitioners to network and exchange information; to promote measurement education and skill development; and to develop means for organizations to resolve measurement challenges.

## VISION

Be the world's recognized source for measurement science expertise and information.





# OVERVIEW OF THE PROGRAM

## Tutorial Program

Tuesday, November 5<sup>th</sup>.  
9:30 a.m. to 3 p.m.

- Measurement Uncertainty Made Easy
- Risk Based Thinking in Measurement and Testing

## Technical Sessions

A full technical session starting with a covering topics from calibration; Instrumentation; national and international metrology and laboratory practice.

*For details refer to the session itinerary.*

## Exhibition

Wednesday, November 6<sup>th</sup>  
8 a.m. to Thursday,  
November 7<sup>th</sup>, 1 p.m.

Exhibition and trade show.

## Networking Events

Tuesday, November 5<sup>th</sup>,  
6:30 p.m.

Metrology Mixer – *Metrology pub quiz*

Wednesday, November 6<sup>th</sup>,  
5:30 p.m.

Banquet – Join us for a cocktail reception and banquet



## Facility Tours – Measurement Canada

Location	Description
<p><b>Measurement Canada</b></p> <p>Address:            Measurement Canada            151 Tunney's Pasture            Driveway            Ottawa, ON K1Y 1G9  <a href="#">Measurement Canada 151            Tunney's Pasture Dr.            Ottawa K1Y 1G9</a></p>	<p>Measurement Canada is an agency of <a href="#">Innovation, Science and Economic Development Canada</a>. It is responsible for ensuring accuracy in the selling of measured goods, developing and enforcing the laws related to measurement accuracy, approving and inspecting measuring devices and investigating complaints of suspected inaccurate measurement.</p> <p>The Standards Building, located at 151 Tunney's Pasture Driveway, is Measurement Canada's headquarters. The building houses the laboratories that test and certify gas pumps, retail scales, and electricity and natural gas meters for use in the marketplace. Tours of the electricity, gas meter, mass and liquid volume laboratories and information on how measurement accuracy is assured will be provided.</p>

## TECHNICAL SESSION ITINERARY

### Day 1 - Wednesday, November 6<sup>th</sup>, 2019

Time	Topic/Title	Name/Org
08:00	Registration/Exhibits/coffee	
09:00	Welcome and Opening Remarks	Ingrid Ulrich, NCSLI Canada
09:30	The McClure Basement Balance, Primary Realisation of the kilogram.	Kevin McClure, Fluke
10:30	Break/coffee/exhibits	
11:00	Calibration of Voltage Dividers	Richard Timmons, Guildline
11:45	How to Take Advantage of the Newest Technology in a Metrology Reference Multimeter	Richard Roddis, Fluke
12:30	Lunch/Exhibits	



<b>13:30</b>	Paperless Calibration and Maintenance Management Software Implementations – The good, the bad, and lessons learned from a First-hand Perspective	Marcus McKneely
<b>14:15</b>	NRC Metrology Quality Management System : Implementing ISO/IEC 17025:2017 and ISO 17034:2016 at a National Metrology Institute	Isabelle Amen, National Research Council
<b>15:00</b>	<b>Break/coffee/exhibits</b>	
<b>15:30</b>	Standards Council of Canada Accreditation Overview	Abdel Kassou, Standards Council of Canada

## Day 2 - Thursday, November 2019

Time	Topic/Title	Name/Org
<b>08:00</b>	<b>Exhibits/coffee</b>	
<b>09:00</b>	Having fun in metrology	Xavier Guillaud Time Electronics Ltd
<b>09:45</b>	Nano Technology – Title to be confirmed.	Zygmunt Jakubek, National Research Council
<b>10:30</b>	<b>Break/coffee/exhibits</b>	
<b>11:00</b>	Photonic thermometry at NRC	Sergey Dedyulin, National Research Council
<b>11:30</b>	ISO CASCO Common Elements - Report and introduction of a study on the validation of standards in metrology.	Andy Oldershaw
<b>12:00</b>	<b>Lunch/Exhibits</b>	
<b>13:00</b>	Closing Address	Ingrid Ulrich, NCSLI Canada
<b>13:30</b>	Travel to Facility Tours	
<b>14:00-16:00</b>	<b>Facility Tours Measurement Canada, Tunney's Pasture, Ottawa.</b>	



# TUTORIAL PROGRAM

The National Research Council of Canada is pleased to be able to offer a choice of workshops, which are complementary with a full registration. Numbers are limited; please look for the tutorial of your choice when booking your conference ticket. Places will be given on a first come first served basis.

<i>Places are limited, so book early!</i>		
Time	Topic/Title	Name/Org
<b>Tuesday, November 5<sup>th</sup>, 9:30 a.m. to 3 p.m.</b>	Measurement Uncertainty Made Easy	Jeff Russell, NRC Calibration Laboratory Assessment Service (CLAS)
	Risk Based Thinking in Measurement and Testing	Christine de Groot and Isabelle Amen, NRC Calibration Laboratory Assessment Service (CLAS)

Wednesday 7<sup>th</sup> November Banquette

Mill Street Pub Meal and Brewery Tour



## WHO'S WHO 2019

### **Ingrid Ulrich, Vice-President Canadian Division Ulrich Metrology Inc., a Transcat Company**



Ingrid Ulrich is currently the Vice-President of Ulrich Metrology Inc., a Transcat Company, which operates a Canadian commercial calibration laboratory founded in 1976. She began her career with Ulrich Metrology in 1996 as Controller, and subsequently Chief Financial Officer, before becoming the President in 2004, and then Vice- President, Operations & Administration in 2014. Prior to joining the company, Ingrid had a nine-year career as a Chartered Professional Accountant with the firm

Richter where she worked as an audit manager and advisor to owner-manager companies.

Ingrid first joined NCSLI in 2004 as a member and participant in the Canadian Region activities. She was named Secretary in 2009 and then Canadian Region Coordinator from 2010 to 2012. Ingrid then assumed the role of NCSLI Canadian Division VP in 2013, in addition to her participation in the Learning and Development Committee as Chairperson of the Anthony Ulrich Metrology Scholarship committee.

Ingrid graduated from McGill University with a Bachelor of Commerce in 1987 as well as a Graduate Diploma in Public Accountancy in 1988. She was admitted to the Canadian Institute of Chartered Accountants in 1988, and later received her Masters of Business Administration from Concordia University. Ingrid resides in Montreal, Quebec, Canada with her husband, three teenage children and Wheaten Terrier named Riley. She enjoys travelling, alpine skiing and eating chocolate, and is an avid soccer mom.



Thanks go to all of our volunteers, speakers, sponsors, partners and exhibitors for their time and consideration and making this event such a worthwhile endeavour.

## Canadian Division Volunteers

<b>Canadian Division Deputy</b>	<b>Andy Oldershaw</b>	<b>National Research Council Canada</b>
---------------------------------	-----------------------	---

<b>Eastern Canada</b>	<b>Jarett Grant</b>	<b>Pylon Atlantic Division of Pylon Electronics, Inc.</b>
-----------------------	---------------------	---

<b>Eastern Ontario</b>	<b>Jim S. Mullins</b>	<b>Pylon Electronics, Inc.</b>
------------------------	-----------------------	--------------------------------

<b>Québec</b>	<b>Sylvain Bérubé</b>	<b>Hydro-Québec</b>
---------------	-----------------------	---------------------

<b>Western Canada</b>	<b>Malcolm C. Smith, PhD</b>	<b>Wescan Calibration Services Inc.</b>
-----------------------	------------------------------	---