2023 CMA Workshop Registration Form

55th Annual Conference & Exhibition
April 23rd – 27th, 2023
Montréal, Québec
www.cma2023.com

- Registration includes admission to **the Calibration for Analytical Measurements Workshop** on Tuesday, April 25, 2023 / Time: 9:00 am to noon.

- The Calibration for Analytical Measurements Workshop is available for only registered delegates and exhibitors.

- Please submit your registration form by April 1st, 2023.

- No refunds after April 10th, 2023.

- Accommodations, travel and details for events not included in this registration form are available on our website www.CMA2023.com.

- **Please return the completed form to:**
    - **Andrea McLaren, Technical Program Chair**
    - **Email**: andrea.mclaren@oreas.ca

Calibration for Analytical Measurements Workshop - Delegate / Exhibitor Name:

First	Last

Company/Organization   **Email**

Job Title

Address

Address Line 1

Address Line 2

City   State / Province / Region

Postal / Zip Code   Country

The Calibration for Analytical Measurements Workshop Fee:
○ $250.00

Workshop: The Calibration for Analytical Measurements

Presenter: Dr. Nimal De Silva
                             Faculty Scientist/Manager, Geochemistry Laboratories,
                             Advanced Research Complex, University of Ottawa,
                             Ontario, Canada K1N 6N5
                             ndesilva@uottawa.ca

Date / Time: Tuesday, April 25, 2023. / 9:00 am - noon.

Course Length: ½ day

Course Description:

- Overview of Basic Statistics
- Types and Propagation of Errors
- Signal Noise, Uncertainty and Dynamic Range
- Linear and Non-linear Regression for Calibration
- Weighted versus Un-Weighted Regression
- Optimum selection of Calibration Range and Standard Intervals
- Gravimetric versus Volumetric standards, and their Preparation
- Real World: Non-Linearity, Matrix effects, Blanks, Signal Drift
- Remedies: Standard Addition, Internal Standards, Drift Correction, Non-linear Calibration, Use of multiple responses
- Use and Misuse of Dynamic Range
- Evaluation and Visualization of Calibrations and Data from Large Data sets using EXCEL

Although the material discussed is universally applicable, examples will be taken mainly from ICP-ES, ICP-MS and Chromatography.

Payment Options

Cheques Payable : 2023 CMA CONFERENCE

by post mail to:

Carl Chan – CALA Workshop Registration
SCP SCIENCE
21800 Clark Graham
Baie D'Urfé, Québec
H9X 4B6

Additional payment options (credit
card, Electronic Fund Transfer) may
be found on the [CMA website](#).

Payment

	CALA Workshop Fee	$

Amount Due: $_____