

About the Course Instructor

Kerry Klassen

- Senior Technician, University of Ottawa

Kerry began her introduction to Stable Isotopes in 1991 at the University of Saskatchewan Isotope Laboratory. In 1995 she moved to Queen's University in Kingston, Ontario. In her role as Lab Manager she assisted Dr. Kurt Kyser in building a state of the art Isotope Facility (Queen's Facility for Isotope Research).

After a couple of years managing a commercial lab in Alberta, Kerry joined the Ján Veizer Stable Isotope Laboratory to take over the IRMS Training Courses that Gilles St-Jean had been teaching for the previous 15 years, in collaboration with Isomass and Thermo.

Host:

JÁN VEIZER STABLE ISOTOPE LABORATORY

Paul Middlestead — Lab Manager / Research Scientist

Wendy Abdi — Senior Technician

Patricia Wickham — Technician and Admin support

Dr. Ian D. Clark— Director

In total, the instructor and staff have over 90 years of stable isotope experience and will gladly share their knowledge with the course participants.



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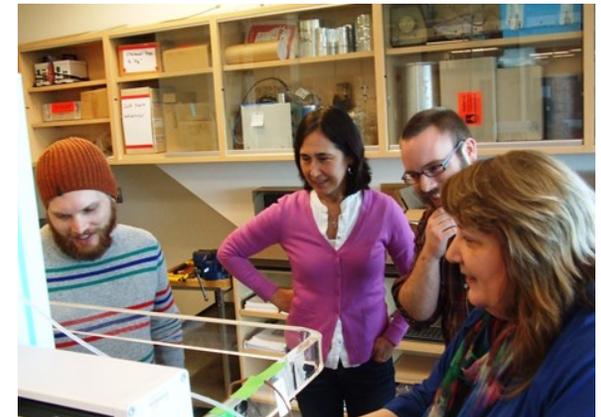
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Isomass Scientific Inc.

**Authorized Thermo Fisher IRMS
TRAINING CENTRE**
at the University of Ottawa



*Instructor Kerry Klassen and attendees at
the GC-IRMS Training Course at the
University of Ottawa.*

"The Isomass Scientific IRMS training courses at the University of Ottawa that I attended were extremely useful. They were designed with the everyday user in mind and really helped with my understanding of the instruments, and theory. The hands-on approach taken helped to 'demystify' the IRMS system."

*Jonathan Haché, Canadian Food Inspection Agency
Canada*

"The isotope MS courses offered by Isomass Scientific provide an excellent opportunity for learning. Whether for a rookie just learning about isotope measurements or a veteran researcher getting a new instrument, the material focuses on providing the specific technical information that operators need. The instructors provide a learning experience that is flexible, hands on, and very up-to-date."

*Paul Eby, Alberta Innovates Technology Futures
Canada*

ISOMASS TRAINING CENTRE AT UNIV. OF OTTAWA.....a success!

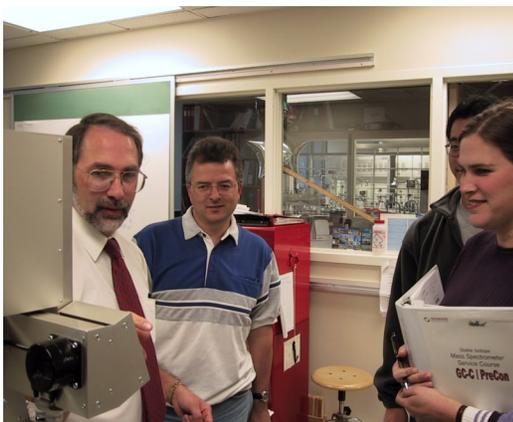
Isomass Scientific Inc.'s Training Centre at the University of Ottawa in Canada has been offering training courses to Thermo IRMS instrument users since July 2000. Response to the courses has been so positive that the centre has become an authorized Thermo Training Centre for IRMS users in North America.

The use of stable isotope mass spectrometers has increased significantly in the past 20 years, largely due to improvements in the technology that has allowed an increasing number of instruments being used in laboratories that are currently investigating new applications.

New stable isotope research labs are emerging in fields such as biology, earth sciences, environmental sciences, medicine, forensic and product adulteration (customs, alcohol, etc.). Many of these new labs have been created with little or no available training for lab personnel.

This increase in research labs, coupled with the unprecedented success of the Thermo DELTA isotope ratio mass spectrometer series, has created a large demand for the instruments, as well as instrument operator training.

When Isomass Scientific Inc. made the decision to launch a Training Centre to address these training needs in North America, the main challenge was deciding where to establish the centre.



Peter Stow, President of Isomass Scientific Inc., shares a few tips with course attendees at the Isomass IRMS Training Centre

The Isomass IRMS Training Centre would require a laboratory where both day-to-day high sample through-put and leading edge research and innovations were being conducted in the field of stable isotopes. This combination would allow course attendees to exchange ideas and methodologies with lab personnel as well as with the course instructor.

The Ján Veizer Stable Isotope Laboratory at the University of Ottawa fit the bill and research scientist Gilles St-Jean was identified as the ideal person to teach and help develop the courses. Peter Stow, President of Isomass Scientific, initially was also called upon to share his more than 20 years of service knowledge and experience in the stable isotope field. With Peter's service experience and Gilles' applications knowledge, their collaboration in the development of the courses has been critical to the success of the Isomass IRMS Training Centre.

In 2016 Gilles decided to retire from teaching the main courses. The torch has been successfully passed to Kerry Klassen. She has taken the course outline that was established by Gilles and Peter and has added her own experience as a lab manager and IRMS user to the curriculum. Kerry has spent many hours dealing with research issues as well as trouble shooting and maintaining IRMS instruments and peripherals. She has a very practical "hands-on" approach to the course material.

Course Objectives

The curriculum has been divided into three separate modules (EA'S, MS-IRMS, GC-GAS BENCH) in order to allow attendees to target their specific individual application needs. All attendees **must** however complete the MS-IRMS Course, (core training course) in order to obtain the mass spec knowledge they will require for the other courses.

These courses will familiarize the users with:

1. Instrument operation as well as regular maintenance, troubleshooting, and diagnostic practices that are essential to the long term reliability of both the instruments and the results that they generate.
2. Data handling (calibration, method and sequence development, normalization, etc.).
3. To make informed decisions regarding materials and techniques for standardizing to the international scales (VSMOW, VPDB, etc.).
4. Practical tips and tricks on how to get the most out of their instruments.

The key to the success of these courses is the small class size which facilitates the hands-on participation of each trainee as well as the interaction with the Instructor and Jan Veizer Stable Isotope Laboratory Staff.

"After taking two Isomass Scientific training courses at University of Ottawa, I've reduced the amount of time spent troubleshooting the Delta^{plus} and greatly increased our lab's productivity. I have also made drastic improvements in the precision of our analyses by applying tips relating to the operation of the Elemental Analyzer/ConFlo II interface. I would highly recommend these courses to anyone who works with the Delta^{plus}, whether they are new to the instrument or have years of experience."

*Bill Holmes, Terrestrial Ecosystem Laboratory
University of Michigan—USA*

COURSE DATES

PLEASE SEE ISOMASS.COM FOR DETAILS

EA-IRMS (2 days)

CE, Elementar & Costech
CHNOS Analyzers
EA's, TC/EA and ConFlo
Interface

April 1-2/19
July 8-9/19
Dec. 2-3/19

MS-IRMS (3 days)

Delta+ and Delta V Series
Ref. to MAT 252/253

April 3-5/19
July 10-12/19
Dec. 4-6/19

GC-GAS BENCH IRMS (3 days)

HP6890, HP7890,
and Trace GC's
GC-PAL Autosamplers
GC-C-III and Isolink Interfaces
Bench II and PreCon

Apr 8-10/19
July 15-17/19
Dec. 9-11/19

Location: University of Ottawa
Advanced Research Complex (ARC)
25 Templeton, Room 460
Ján Veizer Stable Isotope Laboratory,
Room 426
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Website: www.isomass.com

For registration and pricing information contact:
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