



This Newsletter is a bit early, because I will be away for a month in February/March. It is also a bit light on news, because the next NEC meeting will not be held until after this Newsletter is published.

SSC President **Marc Lamoureux** is on sabbatical leave this year and is currently doing research at the Stanford Synchrotron Radiation Laboratory in California. He will return to Halifax on Feb 15. And plans to chair an NEC meeting for the week of Feb 17-22. Please send items for the agenda to Marc at marc.lamoureux@stmarys.ca.

Don Irish

It is with deep sadness that I have to report the death of my friend and colleague Don Irish. Don was an Emeritus Professor of Chemistry at the University of Waterloo. He was a leading Raman Spectroscopist and a long-time supporter of the Society.

SOCIETY CONFERENCES

49th ICASS (2003)

The 49th ICASS will be held at Carleton Univ., Ottawa, June. 4-7, 2003. **Nimal DeSilva** is the Chairman of the conference. ICASS2003 will be held jointly with the annual meeting of the **Canadian Thermal Analysis Society (CTAS)** and a **Workshop on Alcohol Authentication** (for details of this workshop, please see page 8 of the **July Newsletter**). The program for ICASS2003 will cover three main areas. The program chairs for the three areas are: **Marcin Pawlak** (Atomic spectroscopy), **Ana Delgado** (Molecular Spectroscopy) and **Ewa Dabek** (Separation Science-HPLC, GC, CE, etc.)

50th ICASS (2004)

Marc Lamoureux will be the Chairman of the 50th ICASS to be held in Halifax in 2004.

51st ICASS (2005)

The 51st ICASS will be held in conjunction with the **FACSS** meeting in Quebec City in 2005. **Denis Boudreau** will be the ICASS chairman.

SOCIETY AWARDS

The 2002 **Gerhard Herzberg Award** has been made to **Dr. Ralph Sturgeon** (Institute for National Measurement standards) and the **Barringer Spectroscopy Award** to **Dr. Michèle Auger** (Département de Chimie, Université Laval).

2002 Distinguished Service Awards

Awards for distinguished service to the Society have been made to: **Conrad Gregoire, Ian Butler, Christine Gillette-Welling and Joy Sen Gupta.**

NEW ADDRESS

The new address for **Heidi Chen**, SSC Treasurer and Membership Chair is Inorganic Section, AAQD, Environmental Technology Centre, Environment Canada, 335 River Road, Ottawa, ON K1A 0H3.

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CORPORATE PROFILES

A profile of one of our supporting companies the Bruker Group of Companies appears on the last page of this Newsletter.

SSC supporting companies are invited to submit "profiles" for future issues of the Newsletter.

SSC STUDENT SECTION ACTIVITIES

The new year has brought with it student members who are more visible in the society and in the Canadian Journal for Analytical Sciences and Spectroscopy (CJASS). In the most recent issue of CJASS, two papers were published by students who had presented posters at the 48th International Conference on Analytical Sciences and Spectroscopy (ICASS) in Toronto last year. **Alison Holliday**, who is also the webmaster for the SSC, published the work from her award-winning poster on “radial profiles of ion abundance in cold plasmas and mixed-gas plasmas in inductively coupled plasma mass spectrometry”. The other student paper published in the Journal was by **D. Lariviere *et al.*** This paper considered the “application of di(2-ethylhexyl) orthophosphoric acid for the separation of pre-concentration of radium-226 from ores and biological samples from uranium-mining regions”. Both of these papers were subjected to the same rigorous review as all other submissions.

With respect to the society itself, several items were discussed at the last National Executive Committee meeting that could be of interest to student members. Nimal DeSilva, the coordinator for the 49th ICASS, suggested that the student member cost for the conference include a banquet ticket. This would be a good way to include students in the SSC community and would be helpful with respect to presenting students any awards for which they are eligible. Nimal is also considering continuing offering the career workshop for students that was organized by Ray Clement, and committee members, at the last two conferences. Steps were also taken at this meeting to organize a committee that would work on developing the bursary program that was approved at the last annual general meeting. Marc Lamoureux is chairing this committee on which the student representative, Tina Mann, and another member, who is yet to be appointed, will also sit. It is hoped that the first student bursary will be awarded at the 49th ICASS.

Student Member Profile



Tina Mann is currently finishing her master's degree in analytical chemistry at the University of Toronto. As part of the Chemical Sensors Group (CSG), under the supervision of Dr. Ulrich Krull, she has investigated methods using ultrasound for rapid sample processing of genomic DNA to be used in DNA biosensors. The goal of her research is to help create a sampling system that will move towards the creation of a “real-time” DNA biosensor for sample types ranging from water quality to blood. At the joint 48th ICASS and EnviroAnalysis meeting, Tina won a Karasek poster award for her work that focused on the fragmentation of genomic DNA from *E. coli* and the feasibility of using those fragments in biosensor applications.

Outside of her research, Tina plays an active role in the SSC as the student representative on the National Executive Committee and helped to coordinate the career workshop at the EnviroAnalysis/ICASS conference. She is also the Co-President for the association of graduate students at the University of Toronto at Mississauga and a graduate student representative on a variety of committees including one for the development of a new athletic and wellness centre. Tina also leaves time to enjoy a variety of recreational activities including beach volleyball, squash, aerobics, and traveling.

LOCAL SECTION NEWS

SOUTHERN ONTARIO

Otto Herrmann writes: Although we have tried several times to involve more people in the executive, it is still mostly **Roy Smith, Richard Denis** and myself doing the programming. One area of activity involves the **Toronto Area Mass Spectrometry Discussion Group**, who has worked closely with the Southern Ontario Local Section. We share events and speakers with this group. **Vince Taguchi**, who is a member of both the SSC and the Mass Spectrometry Discussion group has been a tremendous support over the years, and critically so in the last two.

We have had a couple of events organized by the Mass Spectrometry Discussion Group, but supported by us as joint events in the last few months. The Local Section hopes to get off the ground soon again, but we do not have anything definite planned in time for inclusion in the February Newsletter.

The Calibration & Validation Discussion Groups (CVG) also have interests, that overlap with those of the Spectroscopy Society of Canada, and a number of SSC members are also members of the CVG. The CVG is a non-profit organization for instrument calibration and validations in Canada. There are 4 main discussion groups (HPLC, Pharmacopoeia, Dissolution and Instrument Validation) and one seminar based group (LC-MS). To join these groups you must be a CVG member. The organization offers many venues for sharing analytical chemistry practices in the field of pharmaceuticals and biopharmaceuticals. Further details may be obtained at the CVG website: **www.cvg.ca**

OTTAWA VALLEY

Heidi Chen reports that on November 6, 2002, the Ottawa Valley Local Section organized a dinner meeting to honor **Christine Gillette Welling**. Christine, a former President of the Society, received the 2002 Spectroscopy Society of Canada Distinguished Service Award for her contributions over the years to the Society. Fifteen people attended this meeting, including **Conrad Gregoire, Mike Hinds, Maureen Leaver, Ralph Sturgeon, Ana Delgado, Bob Dabeka, Barbara Blackwell, Clint Smith, Joe Dlouhy, Ewa Dabek, Mylaine Tardif, Shamil Cathum and Heidi Chen**. **Victor Benham** was not able to attend due to a transportation problem.

Pictures were taken for the plaque presentation during the dinner. These are posted on the SSC web site (see Local Chapter event). Christine was obviously the driving force for the good turnout and this event is believed to have initiated the re-activation of the Ottawa Valley Local Section.

OTHER LOCAL SECTIONS

The Society has other established Local Sections in Vancouver/Victoria, Edmonton/Alberta, Montreal Region and Quebec City. The Society supports Local Section activities such as meetings, workshops etc. Suggestions for speakers and topics for workshops are welcome and people are always needed to help organize these events. Please contact your local section chair (names and phone numbers are given on the front page of this Newsletter).

Call for Nominations

2003 Herzberg and Barringer Awards

Nominations are invited for the Gerhard Herzberg Award and the Barringer Spectroscopy Award for 2003.

The **Gerhard Herzberg Award** is given to a Canadian spectroscopist for outstanding achievement in the science of spectroscopy. It is typically given to an established scientist in recognition of an outstanding career in which spectroscopy, of either a fundamental or applied nature, has played a dominant part.

The **Barringer Spectroscopy Award**, funded by Barringer Laboratories Ltd., is given to a Canadian spectroscopist for distinguished achievement and demonstrated potential in the application of spectroscopy and/or development of spectroscopic instrumentation. It is typically given to a scientist who, relatively early in his/her career, has made a significant contribution and has clearly demonstrated outstanding potential.

Nomination Process

Complete nomination documentation must be received by **Jan. 31, 2003**. The documentation should include the following.

1. A letter of nomination which includes a concise statement of the candidate's achievements
2. A comprehensive curriculum vitae
3. Supporting letters from at least three qualified persons. Letters from previous SSC Award winners are particularly helpful to the Committee.

All correspondence should be addressed to:

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COMPANY PROFILE THE BRUKER GROUP OF COMPANIES

Bruker was established in Canada in 1970 and quickly became a leading company providing analytical equipment to the scientific community. In 1983 Bruker Spectrospin (Canada) Ltd. opened a 15,000 square foot facility for the Canadian marketplace dedicated to the sales, service and applications of nuclear magnetic resonance (NMR) spectrometers, mass spectrometers, Fourier transform infrared (FT-IR and FT-NIR) spectrometers and Fourier transform Raman (FT-Raman) spectrometers.

Over the years each of the business segments has grown dramatically and additional analytical spectrometer equipment was added to our arsenal with the purchase of the Siemens analytical X-Ray business, now called Bruker AXS. Several years ago the decision was made to form separate business units dedicated to each of the product lines. The breakdown is as follows:

Bruker BioSpin Ltd: This company handles all Bruker's NMR product lines including liquids, solids and micro-imaging.

Bruker Daltonics Ltd: This company is responsible for all MS products including FT-MS, Maldi-TOF and Ion Trap technologies.

Bruker Optics Ltd: This company sells and services a range of vibrational spectrometers including FT-IR, FT-NIR, and FT-Raman instruments.

Bruker AXS Inc: This company handles all analytical X-Ray spectrometers including single crystal and X-Ray powder diffraction spectrometers.

Each of these companies functions as an autonomous business - in fact both Bruker Daltonics and Bruker AXS are now publically traded companies on the NASDAQ market in the USA. All remaining Bruker companies are currently privately held. The Bruker group of companies remains a strong and leading force in the development of new spectrometers to serve the scientific community.

I would like to thank all our customers for their continued support of our products and services and we look forward to working together to serve you in the years to come.

Dr. Henry J. Stronks, Executive Vice President,
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