

The Formula



President's Message

My fellow colleagues, how time flies! Our AGM is less than a month away. In my last report to you in early February, gas prices were going down, our dollar was going up, and the February freeze was just around the corner. Yesterday, gas prices reached, I believe, the highest level ever, our dollar is soaring, and we still need a good rain for our lawns. This script doesn't seem to change too much from year to year BUT your executive is always trying to come up with new ideas and activities that might be of interest to you.

Our past years activities began with a tour of the Diageo plant in Gimli. In late November we had a very successful 2-day ISO 17025 workshop. On January 31st we had an evening seminar at the Virology Lab. Dwight Williamson, Director of Water Science and Management Branch gave a very interesting talk, entitled, "Lake Winnipeg-Past, Present, and Future", to the 50 colleagues in attendance. A new activity, bowling night, was planned for late February, but yours truly who was organizing this event, had two eye surgeries and had to postpone the event. Another seminar entitled, "Food Safety: Provincial/Federal Perspectives", had to be cancelled due to both presenters having other unexpected commitments. Our annual Mid-Canada curling bonspiel on March 17th was its usual roaring success and was much enjoyed by all who attended. Your Association participated again, as judges, at the 2007 Manitoba Schools Science Symposium (MSSS) at the end of April. Mid-Canada AOAC presented special monetary awards and plaques to the top four projects with a strong analytical content.

Finally, the BIG EVENT of the year. Mid-Canada AOAC Day will be taking place at the Victoria Inn on June 14th. There will be four separate symposia going on simultaneously, three technical and one research oriented. Each symposium will have four speakers in the morning and two in the afternoon. The symposia will be timed concurrently to allow for easy transitions between sessions. In addition,

there will be 35 vendor displays, and many prizes including our main prize worth \$300. A full day workshop entitled, "GCMS, LCMS Techniques and Spectral Interpretation" is also being planned for that day. All members have been e-mailed the information. Registration is limited and is now half full. Register now and avoid disappointment.

Of course you don't want to miss our spectacular luncheon buffet. Our guest speaker will be Dr. Eva Pip; Dr. Pip is a full professor at the University of Winnipeg in the areas of Toxicology and Water Quality. Dr. Pip has been working in these fields for 4 decades and has more than 100 scientific publications, numerous government reports, published 3 books, and has been a member of numerous federal and environmental committees, including the Committee on the Status of Endangered Wildlife in Canada. Dr. Pip's talk will examine the impact that various types of land use will have on surface water chemistry, and the consequences of these impacts on human health and aquatic ecosystems. This is a topic that all of us should be concerned about, especially knowing the serious problems in Lake Winnipeg. It was through Dr. Pip's concern for our water quality that the algae problems in Lake Winnipeg were made public. Finally our annual golf tournament will be held on Friday June 15th. Information on this great event can be found in this newsletter.

This is my last message as your President. It has been a personally rewarding experience. I have enjoyed the camaraderie and friendship of my fellow executive members. It has been an honour and pleasure to have been given the opportunity to work closely with this wonderful group of hardworking, dedicated individuals. Thank you for the privilege of serving as your president. My sincere best wishes to our incoming president, Mr. Wes Budakowski from K'Prime Technologies. Before closing, I have one request. Our executive is always looking for new volunteers who are willing to work on behalf of the Association. Please consider being part of a dedicated group of fellow colleagues. I'm sure you will find it as rewarding.

Collegially,
Morley Jacobs
E-mail: mjacobs@mts.net Ph: (204) 339-3134

<i>Inside...</i>	Page
Report on MSSS	2
Report on Curling	2
18th Annual AOAC Day	3
AOAC Day Workshop	4
Upcoming Events	5
Prize Puzzle	6

2007 Manitoba Schools' Science Symposium

By Tom Nowicki

Thank you to the many members of Mid-Canada AOAC who volunteered their time to judge the projects entered in this year's Manitoba Schools Science Symposium (MSSS).

This year's MSSS was held April 26th – 29th at the University of Winnipeg. A dinner for the judges was held on the Friday night and was followed by previewing of the projects later on in the evening. Formal judging of the projects took place on both Friday April 27th and Saturday, April 28th. Mid-Canada AOAC awards were presented to students judged to have a superior analytical content. Nubia Viafara, Shirley Dzogan and Tom Nowicki carried out judging for the Mid-Canada AOAC awards. Winning students and project titles were:

Nishant Balakrishnan	Minesweeper....Not just a game
Kara Nadeau	Alfalfa: Potential Source of the health ingredient lutein
Ravindi Gunasekara	Inhibition of calmodulin-dependent protein kinase II by pea protein derived peptides
Nirusan Jayaranjan	Navigation for the blind

President Morley Jacobs presented plaques to the award-winning students at the Special Awards Ceremony on April 30th. A cash prize was provided to each of the winners as well.

More information about the MSSS may be found at: <http://www.msss.mb.ca/>

Rocks 'n' Rings

By Tom Nowicki

The '2007' Mid-Canada AOAC Curling Bonspiel was held March 17th at the West Kildonan Curling Club in Winnipeg. Nine teams consisting of 34 curlers of widely varying experience competed for the coveted trophy. All games, except for the "A" event final were two ends. This is usually enough to decide a winner, but for some games "skip rocks" were required - a cold draw by each skip with the winner being the closest to the button. Each team played four or five games over the course of the evening. Following the curling, everyone retreated to the lounge for a well deserved lunch, awarding of the prizes and to trade stories about some of their great shots and near-great shots.

The winning teams were as follows:

"A" Event – BIOVAIL-2: Al Jakilazek, Bonnie Jakilazek and Indrajith Gunasekera

"B" Event – CGC-1: Tom Nowicki, Andrew Minkevich, Betty Nowicki and Tyler Nowicki

"C" Event – CANGENE-2: Andrew Hargrave, Corissa Sweetland McMillan and Connie Duong

"D" Event – BIOVAIL-1: Robyn Jenner, Jeff Koffman, Jenn Brayford and Colin Froese

Jeff Easton from the RCMP Forensic Laboratory in Winnipeg made the arrangements with the curling club for the ice time and food, and brought a truck load of loot to give out as prizes. Once again, yours truly, from the Canadian Grain Commission, had the pleasure of arranging the draw.

AOAC DAY 2007 THURSDAY JUNE 14th

We would like to invite you to our
18th Annual Mid-Canada AOAC Day

Thursday June 14th, 2007

Victoria Inn

1808 Wellington Avenue, Winnipeg, MB

Admission

Mid-Canada AOAC Members: Free*

*With paid membership due (\$10.00)

Non-Members: \$10.00

Registration fee includes lunch

Registration begins at 8:00 am

AOAC DAY HIGHLIGHTS

❖ Laboratory Equipment/Supply Exposition

VWR, Agilent, K Prime, Chromatographic Specialties, Applied BioSystems, Varian, Retsch, Vicam, Waters, Mettler Toledo, Pharm Eng, Mandel Scientific, Anachemia, Canadian Life Science, Pall Life Science, Caledon, London Scientific, R-Biopharm, Biolynx, Brinkmann, Beckman, Neogen, ACP Chem, Delta Scientific, PerkinElmer, ATS Scientific and Astoria-Pacific (List of vendors at date of print)

❖ Symposia

Four symposia; 3 technical and 1 research orientated. Each symposium will have four speakers in the morning and two in the afternoon

❖ Keynote Speaker

Dr. Eva Pip

Dr. Pip is a full professor at the University of Winnipeg in the areas of Toxicology and Water Quality. Dr. Pip's talk will examine the impact that various types of land use will have on surface water chemistry, and the consequences of these impacts on human health and aquatic ecosystems. It is sure to be a very interesting presentation on a topic that all of us should be concerned about, especially knowing the serious problems in Lake Winnipeg

❖ Mid-Canada AOAC Scholarships

Mid-Canada AOAC's scholarship program was first established in 1992 to provide financial awards to students showing a history of academic excellence and an interest in furthering a career in science. From 1992-2004, awards were made in two different categories - the University Scholarship and the Red River College (RRC) Scholarship for students at different academic levels. Since 2004, these awards have been harmonized to recognize the top student in designated undergraduate level courses at the University of Manitoba, the University of Winnipeg, Brandon University, and the Red River College. Two courses from each of the Universities/College are selected based on their relevance to the scope of AOAC, one in the chemical/environmental analysis area, and the other in microbiological analysis area. The 2006-2007 winners will be announced at the Annual Mid-Canada AOAC Day Event on **June 14th, 2007**.

❖ Mid-Canada AOAC AGM

All are welcome. Do you have time to commit to our organization? We are always looking for new members for the Executive. Anyone wishing to be part of our next executive must be present at the meeting along with a member to nominate them. Come be part of a very rewarding experience.

❖ AOAC Day Workshop

GCMS, LCMS Techniques and Spectral Interpretation (see advertisement on next page)

AOAC DAY Workshop
THURSDAY JUNE 14th
Victoria Inn

***GCMS, LCMS Techniques and
Spectral Interpretation***

Time

8:30 – 3:00

AOAC Keynote speaker lunch & two coffee breaks included

Registration

\$50.00 per person until **June 8th**

\$75.00 per person after June 8th

Space is limited

To register please contact:

Morley Jacobs (mjacobs@mts.net)
 and submit payment to (cheques made payable to Mid-Canada AOAC):

*AOAC Day Workshop
 C/O Morley Jacobs
 677 Waverley St.
 Winnipeg, MB
 R3M 3K8*

Topics

GCMS Interpretation of Mass Spectra

This course will cover the interpretation of mass spectra as produced on single quadrupole GC/MS systems. The following topics will be presented:

- Electron Ionization (EI) mechanisms
- Tuning parameters
- Atomic weight and isotope ratios
- Ion selection for quantitation
- Data integrity vs. collection parameters
- Spectrum Tilting

Attendees should have an understanding and familiarity with the operation of a GC/MS system.

LCMS Techniques and Theory

This course will compare and contrast ionization techniques and various LCMS-MS detector types. The following topics will be presented:

- Theory of ionization (focus on ESI, APCI)
- Practical aspects of ionization
- Examination of the various types of MS, MS/MS detectors
- Strengths/weaknesses of various MS, MS/MS detectors

An open discussion question/answer period on both GCMS and LCMS topics will end out the day.

Presenters

David Presser, *Agilent Technologies*

Patrick Steffes, *K'(Prime) Technologies*

Dr. David Presser works for Agilent Technologies as a LCMS applications engineer (AE). David has been working with Agilent/HP for over 19 years. David's current duties as an AE include running customer samples, providing product demonstrations, presenting seminars, and delivering consulting on MS products. In addition, he also has 12 years experience on UNIX systems and is an expert user of Agilent GC/LC/MS data stations on WinXP.

Patrick Steffes works with K'(Prime) Technologies; K' is the manufacturer's representative for Agilent Technologies in Western Canada. Patrick has been performing field service on analytical instrumentation for over 13 years, and has a wide range of experience on mass spectroscopy and chromatography. He currently teaches courses for Agilent Technologies in Canada. Patrick is a professional chemist with the Association of the Chemical Profession of Alberta (ACPA), and a member of the Chemical Institute of Canada (MCIC).

*****REGISTER TODAY*****

Mid-Canada AOAC Golf Tournament 2007

Date/Time: Friday, June 15th, 9:00 am

Where: Players Golf Course

What: 9 holes (best ball format)

Fee: \$20/player; lunch & prizes included

Registration: By June 11th

Contact: Tom Nowicki

Ph. 983-3345

E-mail: tnowicki@grainscanada.gc.ca

Mid-Canada AOAC WEBSITE

www.midcanadaaoac.org

VISIT the redesigned WEBSITE for all the up to date information on upcoming events,

We would like to make better use of our website. Have you any suggestions? If so, please contact Victor Wei at:
wei@cc.umanitoba.ca

The Formula is published 2 - 3 times per year.

Published by:

Morley Jacobs, President
e-mail: [mjacob@mts.net](mailto:mjacobs@mts.net)
phone: (204) 339-3134

Edited by:

Tricia Chornick, Newsletter Editor
e-mail: tchornick@grainscanada.gc.ca
phone: (204) 984-2497

Mid-Canada AOAC: www.midcanadaaoac.org

UPCOMING EVENTS

June 14th, 2007

The 18th Annual Mid-Canada AOAC Day
Victoria Inn, 1808 Wellington Ave, Wpg

June 18th-21st, 2007

Canadian Nutrition Congress 2007

Winnipeg Convention Centre

Featuring symposia on:

- ❖ Optimal fatty acids for human health
- ❖ Fetal programming
- ❖ DHA vs. ALA
- ❖ Swine Intestinal Health
- ❖ Rumen Nutrient Modeling
- ❖ Developing standard of evidence for functional foods
- ❖ Trans Fats
- ❖ Conjugated Linoleic Acid
- ❖ Sustainable Beef Production
- ❖ Recent Advances Session

A joint meeting of:

Canadian Section of the American Oil Chemists' Society
Canadian Society for Nutritional Sciences
Canadian Society of Animal Science

www.cnc2007.ca

June 25th-29th, 2007

**The Science and Joy of Canadian
Barley and Beer**

York the Hotel Wpg, MB

The Canadian Grain Commission (on behalf of the Barley Development Council- The 5th Canadian Barley Symposium) and the District Western Canada Master Brewers Association of the Americas are pleased to announce a joint meeting:

The [four day program](#) will cover various aspects of feed, food and malting barley and will feature oral and poster presentations on topics ranging from production, to the recent advances in science and the end uses of barley.

This conference will be of interest to producers, researchers, brewers, marketers and end-users. Everyone is encouraged to participate and to pass this information on to colleagues and associates.

www.barleybeer07.ca

Prize Puzzle



Solve the Spring 2007 Newsletter Prize Puzzle for a Chance to Win \$50!

A cryptoquote is a puzzle in which every letter appearing in the puzzle represents a letter in the encoded message.

Decipher the cryptoquote below:

Hint:
F = L
B = P

“Ax kdl’ih sdu byiu dx uzh wdfluads, kdl’ih byiu dx uzh bihtabauyuh.”
- Zhsik Uaffpys

Send your answer to:
Susan Kotello
via e-mail at: skotello@mts.net

on or before June 1, 2007. If your answer is correct, you will be entered into a draw to win

\$50.00 cash!

The solution to the Winter 2007 Newsletter’s scrambled word prize puzzle is:

Q: What’s the most important thing to learn in chemistry?
A: Never lick the spatula.

Congratulations to Poornima Gupta who won the Winter 2007 Newsletter Prize Puzzle. Poornima immigrated to Canada in August, 2004 and completed the Advanced Diploma Program at Red River College in Pharmaceutical Manufacturing in 2006. Poornima worked at Biovail and is now working at Viventia Biotech as a Manufacturing Technician working in upstream processing.

Poornima’s name was randomly selected by Tricia Chornick and Susan Kotello from the record 33 entries received. Thanks to everyone for attempting the Prize Puzzle!

Mid-Canada AOAC Executive 2006-2007

President	Morley Jacobs; <i>Red River College</i>
Past-President	Leno Melito; <i>National Microbiology Laboratory</i>
President-Elect	Wes Budakowski; <i>K’Prime Technologies</i>
Treasurer	Eugene Gawalko; <i>CGC (GRL)</i>
Secretary	Jeff Easton; <i>RCMP Laboratory</i>
Membership	Susan Kotello; <i>Health Canada</i>
Newsletter	Tricia Chornick; <i>CGC (GRL)</i>

Members at Large

Shirley Dzogan; *Manitoba Health*
Wayne Greenlay; *RCMP Laboratory-Regina*
Juan Carlos Herrera; *Standard Aero Ltd.*
Irene Holloway; *Anachemia Science*
David Loveland; *Waters Corporation*
Tom Nowicki; *CGC (GRL)*
Greg Sliva; *Health Canada*
Nubia Viafara; *Cangene Corporation*
Feiyue Wang; *Faculty of Environment, U. of MB*
Victor Wei; *Civil Engineering Dept., U. of MB*

Have a Great Summer!

