

## VISITING SPEAKERS

**Prof. Robert A. Batey**, Department of Chemistry, University of Toronto, will speak on "Recent advances toward the synthesis of heterocyclic natural products using pericyclic reactions" on Monday, Feb. 2/04 at 11:00 a.m. in E3-25.

**\*\*\*REVISED\*\*\* Prof. Michael Bowser**, Analytical Division, Department of Chemistry, University of Minnesota will speak on "In vitro evolution of functional DNA using capillary electrophoresis" on Friday, Feb. 6/04 at 4:00 p.m. in V-106

**502 Seminar** – Mathew Willans will speak on "Photoinduced magnetization in Prussian Blue molecular magnets" on Wednesday, Feb. 4, 2004 at 11:00 a.m. in V-107.

### **Congratulations to the following students:**

- Jelena Dragoljic who passed her M.Sc. defense on Jan. 22/04
- Ni Yang who passed her M.Sc. defense on Jan. 27/04
- Amala Chokshi who passed her M.Sc. defense on Jan. 27/04
- David Craft who passed his Ph.D. defense on Jan. 23/04
- Hans Osthoff who passed his Ph.D. defense on Jan. 23/04
- to Scott McGavin who passed his candidacy on Jan. 26/04.
- to Jamie Cote who passed his candidacy on Jan. 23/04

## NOTICES

**Mailboxes:** Reminder to everyone to please check your mail frequently in the mailboxes across from the 3<sup>rd</sup> floor elevators. We seem to be developing a backlog of mail that people have not picked up.

**Chemical Biophysics Symposium 2004** – March 12-21, 2004 in Toronto. For details see notice posted on bulletin board.

**Cumulative Exams:** The next cumulative examination will be held on Saturday, February 7, 2004 at 11:00 a.m. in Room E5-36.

**Nameplates:** If anyone in the Chemistry Department would like to order, or is missing a nameplate for their office door, please let Jeannette know in the General Office e-mail [jeannette.loiselle@ualberta.ca](mailto:jeannette.loiselle@ualberta.ca)

### LAST CHANCE

**PHOTOS** of the Girls Chemistry Christmas Luncheon and the Chemistry Christmas Social are currently in the mailroom for your viewing and possible ordering until January 30/04.

**There are two free used fridges** for any researcher who wants them. They are in working order and were used for storage of chemicals.

**Please note:** \*\*\*Considering the outside temperatures please ensure that you do not leave office windows open. It has been brought to our attention that several windows are open on the west wing of Chemistry. If you notice stairwell windows open please close them too. Thank you for your assistance. We do not want to have frozen water pipes.

## EMPLOYMENT OPPORTUNITIES

ARE POSTED ON THE BULLETIN BOARD  
ACROSS FROM THE ELEVATORS ON THE THIRD FLOOR  
PLEASE DO NOT REMOVE THE EMPLOYMENT NOTICES FROM  
THE BULLETIN BOARD

**Employment opportunities are posted on a new internet site:**  
<http://www.careerowl.ca>

**Chemistry Department, U of Alberta**, 3 year limited term instructor for organic chemistry

**Merck Frosst Centre for Therapeutic Research** is seeking both Ph.D. and MSc. Level chemists to join their expanding group. They are also seeking a Mass Spectrometrists.

**University of Waterloo** – tenure track appointment in Chemistry/Biochemistry.

**University of Waterloo** – Tier II Canada Research Chair, Department of Chemistry

**University of Waterloo** – NSERC University faculty award.

**Laurentian University** – three tenure track positions at the Assistant professor level beginning July 1, 2004.

**University of California** – specialist position for manager for the Department's small molecule X-Ray facility.

**Mt. St. Vincent University** tenure track faculty position

**National Institute for Nanotechnology** – Technical Officer.

**University of Calgary** is seeking an assistant Professor of Physical Chemistry.

**Pharmaceutical company** is seeking a full-time Laboratory Technician in our Analytical Chemistry Department. Must have degree or diploma including analytical chemistry. Experience with HPLC, LC/MS desirable. Please fax your resume by January 23, 2004 to (780) 414-6878.

**Advanced Materials Unit (Alberta Research Council)** – requires a Polymer Chemist or Material Chemist.

**Claremont McKenna College, Pitzer College, Scripps College**

– temporary positions in chemistry, physical, and/or organic  
**Oklahoma State University** – post doc position supported by USDA/NRI

**Outreach Activities** can be accessed at:

[www.ualberta.ca/Outreach/whats%20new.htm#science](http://www.ualberta.ca/Outreach/whats%20new.htm#science)

We have a request for more news regarding awards and/or special recognitions for both our Faculty and students of the Chemistry Department. If you would like to add your name to the newsletter e-mail list or would like to put an announcement in the newsletter, please e-mail [jeannette.loiselle@ualberta.ca](mailto:jeannette.loiselle@ualberta.ca). The newsletter is also available at <http://www.chem.ualberta.ca/about.htm>

Simon Fraser University Chemistry Student Society will be holding a Chemistry and Biochemistry Career Fair on Tuesday, February 10/04 from 12:00-5:00 p.m.

## University of Alberta Department of Chemistry Achievements and Recognitions

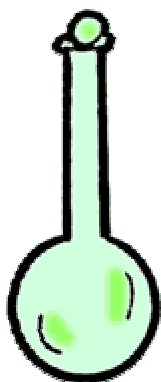
In 2004 Professor Raymond U. Lemieux will join a select group of 31 Canadian scientists, engineers and innovators when he is inducted into the Canadian Science and Engineering Hall of Fame. The names of some of the prominent individuals already recognized include Frederick Banting, Gerhard Herzberg, John Polanyi, Michael Smith, Alexander Graham Bell, E.W.R., "Ned" Steacie, and J.-Armand Bombardier.

The objectives of the Canadian Science and Engineering Hall of Fame are twofold. To honour Canadians who have made outstanding contributions to society in developing science and engineering.

To promote role models that will help attract young Canadians to careers in science, engineering and technology.

The Hall of Fame is a central part of the *Innovation Canada* exhibition at the Canada Science and Technology Museum in Ottawa. There are currently 31 Canadian scientists, engineers and innovators recognized in the Hall of Fame. The achievements of these individuals have been so remarkable and their contributions to society so great that the Museum hopes one day all Canadians will be aware of their accomplishments.

If anyone would like to announce achievements and/or recognitions in our "Recognitions Section" please e-mail [jeannette.loiselle@ualberta.ca](mailto:jeannette.loiselle@ualberta.ca)



### Tip of the Day

Try out the Chemists Chocolate Chip Cookies ☺ and try to keep warm. If the cookies work, great – if they don't – I don't want to know

## This Week in History

<http://webserver.lemoyne.edu/faculty/giunta/week.html>

### January 30

- Peter Agre born 1949: water channels in cell membranes; Nobel Prize, 2003.
- Harold Booth born 1891: inorganic chemistry; fluoride gases
- Alexandre-Émile Beguyer de Chancourtois born 1820: geologist whose arrangement of elements and other substances by atomic weight (called *Vis Tellurique*) exhibited chemical periodicity in 1862.
- George Gerald Henderson born 1862: catalysis

### The Chemist's Recipe for Chocolate Chip Cookies

The following recipe for chocolate chip cookies recently appeared in *Chemical & Engineering News* (C&EN, Jun 19, 1995, p. 100). It was attributed to Jeannene Ackerman of Witco Corp.

#### Ingredients:

- 1..... 532.35 cm<sup>3</sup> gluten
- 2..... 4.9 cm<sup>3</sup> NaHCO<sub>3</sub>
- 3..... 4.9 cm<sup>3</sup> refined halite
- 4..... 236.6 cm<sup>3</sup> partially hydrogenated tallow triglyceride
- 5..... 177.45 cm<sup>3</sup> crystalline C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>
- 6..... 177.45 cm<sup>3</sup> unrefined C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>
- 7..... 4.9 cm<sup>3</sup> methyl ether of protocatechuic aldehyde
- 8..... Two calcium carbonate-encapsulated avian albumen-coated protein
- 9..... 473.2 cm<sup>3</sup> theobroma cacao
- 10.... 236.6 cm<sup>3</sup> de-encapsulated legume meats (sieve size #10)

To a 2-L jacketed round reactor vessel (reactor #1) with an overall heat-transfer coefficient of about 100 Btu/F-ft<sup>2</sup>-hr add one, two, and three with constant agitation.

In a second 2-L reactor vessel with a radial flow impeller operating at 100 rpm add four, five, six, and seven until the mixture is homogeneous.

To reactor #2 add eight followed by three equal portions of the homogeneous mixture in reactor #1. Additionally, add nine and ten slowly with constant agitation. Care must be taken at this point in the reaction to control any temperature rise that may be the result of an exothermic reaction.

Using a screw extruder attached to a #4 nodulizer place the mixture piece-meal on a 316SS sheet (300 x 600 mm). Heat in a 460K oven for a period of time that is in agreement with Frank & Johnston's first order rate expression (see JACOS, 21, 55), or until golden brown.

Once the reaction is complete, place the sheet on a 25 °C heat-transfer table allowing the product to come to equilibrium.