

## VISITING SPEAKERS

The National Institute for Nanotechnology ([www.nint.ca](http://www.nint.ca)) [Materials Chemistry lunch series – brown bag lunch] presents **Prof. Allen Apblett**, Oklahoma State University will speak on “Novel routes to nanoparticles and spherical nanoparticle aggregates for environmental applications” on Monday, October 17, at 12:00 p.m. in E3-25 (chemistry).

The Harry Emmett Gunning Lecture Series presents **Professor Carol Robinson**, Professor of Biological Chemistry, Department of Chemistry, University of Cambridge, UK will speak on the following topics at 11:00 in V-107

- “Mass spectrometry from rare gases to ribosomes” on Tuesday, October 18, 2005.
- “Mass spectrometry of non-covalent complexes – more than the sum of their parts” on Wednesday, October 19, 2005.
- “Mass spectrometry and the shape of things to come” on Thursday, October 20, 2005.

**Prof. Seiichi Matsuda**, Department of Chemistry, Rice University, Houston, Texas, U.S.A. will speak on “Catalytic and evolutionary origins of triterpenoid skeletons” on Monday, October 24/05 at 11:00 a.m. in V-107.

Department of chemistry, University of Alberta, Analytical Division presents **Professor Dirk Wallschläger**, environmental Chemistry, Environmental and Resource sciences program, Trent University, Peterborough, Ontario, will speak on “Thioarsenates in sulfidic waters – where geochemistry and analytical chemistry collide” on Friday, October 28, 2005 at 4:00 p.m. in V1-10.

## 502 Seminars

**Dazhan Liu** will speak on “Recent advances in asymmetric [3+2]-cycloaddition reactions” on Monday, October 17, 2005 at 11:00 a.m. in V-107

Mitchel Flegel will speak on “Biosynthesis of Taxol” on Monday, October 31 at 11:00 a.m. in V-107.

**Upgraded Spectrofluorometer now available in Spectral Services!** The Photon Technology International (PTI) Quantmaster spectrofluorometer formerly housed in Dr. R. Tykwinski's research lab has been moved into Spectral Services and significantly upgraded. The upgrade includes the addition of an excitation polarizer and a motorized emission polarizer. These polarizers enable anisotropy (polarization) measurements that can provide information on molecular movements that take place during the fluorescence lifetime. Anisotropy measurements can also be used to measure binding constants or probe the microenvironment of a fluorophore. The upgrade also includes a peltier heater/cooler cuvette holder that enables accurate temperature control and temperature ramping experiments. If you are interested in using this instrument, please see Wayne Moffat in Spectral Services (E5-43). Support for this upgrade came from a CFI-CRC grant to Dr. R. Campbell with matching funds provided by the University of Alberta.

## 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>

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**Grand Valley State University**, requires an assistant professor in (1) Chemistry (Biochemistry), tenure track; (2) Assistant Professor in Chemistry (analytical chemistry), tenure track. [www.gvsu.edu](http://www.gvsu.edu)

**University of California, Berkeley**, requires candidates for two separate faculty positions, Dept. of Chemistry; position #821 bioorganic chemistry; position 1018 – assistant professor in any area of materials chemistry. <http://www.chance.berkeley.edu/apo/evalltr.htm>.

**MRI Centre, University of New Brunswick**, has three post doc positions available – (1) position in MRI of materials (technique development); (2) unilateral NMR/MRI (applications); (3) MRI of porous media with geologic applications. <http://www.unb.ca/physics.mri>

**University of Lethbridge**, Department of Chemistry and Biochemistry is seeking applicants for a tenure track position at the rank of assistant professor in any area of modern Chemistry commencing Jan. 1/06. <http://www.uleth.ca/chm/>

**Aims Fine Chemicals Inc.**, is looking for suitable candidates to fill Industrial Post Doc positions (1) asymmetric synthesis and Chiral Auxiliaries and Chirality's Directing Ligands (2) experienced synthetic organic chemist with hands on experience in product isolation and identification techniques. See employment board for more information.

**University of Waterloo**, Quantum information and materials, Tier II Canada research chair Chemistry department and Institute for quantum computing invites applications for a Tier II Canada Research Chair faculty position. <http://www.science.uwaterloo.ca/chemistry>

**University of Minnesota**, seeks to fill one tenure track faculty position beginning July 1, 2006 or later. [www.chem.umn.edu](http://www.chem.umn.edu)

**Université de Montréal**, Department of chemistry, Faculté des arts et des sciences, has an opening for a tenure-track position in all areas of experimental chemistry within the NSERC UFA program. [http://www.chimie.umontreal.ca/index\\_eng.html](http://www.chimie.umontreal.ca/index_eng.html).

**University of Toledo**, Department of Chemistry, invites applications or nominations for three tenure-track faculty positions in 1) bioanalytical chemistry 2) surface characterization of thin films and 3) macromolecular crystallography beginning Aug. 2005. Detailed information on this position is on the employment board.

**California Institute of Technology**, Div. Of Chemistry and Chemical Engineering invites applications for Postdoctoral Scholar appointments in Chemistry. <http://cce.caltech.edu>.

**University of Toronto at Scarborough**, Dept. of Physical and Environmental Sciences invites applications for two tenure track positions at the rank of Assistant Professor in the area of environmental chemistry. <http://www.utsc.utoronto.ca/~physsci/>.

## 2005 Nobel Prize

- was shared by **Richard R. Schrock\*** (MIT, born 1945); **Robert Grubbs\*** (Cal Tech, born 1942), and Yves Chauvin of France (born 1930), "for the development of the metathesis method in organic synthesis".

\***Richard Schrock** spoke as our distinguished visiting speaker for our Chemistry Boomer Lecture Series in 1989.

\***Robert Grubbs** spoke as our distinguished visiting speaker for our Chemistry Reuben Benjamin Sandin Lecture series in 2000.

The Nobel prize winner is awarded the monetary amount of the prize for every year since the first, being awarded in 1901. They list the "real value" of the award in terms of today's currency. The 2005 prize is worth 10,000,000 SEK (Swedish Kronor), equivalent to about \$1.5 million Canadian.

The Nobel website (<http://nobelprize.org/chemistry/laureates/2005/index.html>) lists them in alphabetical order. I believe these discoveries are a triumph of organometallic chemistry.

*"It's nice when we pick a winner before the Nobel Committee does, which we've done before."* (William Graham – Faculty of Science)

## Employment Opportunities cont...

**University of Toronto**, invites applications for a tenure stream position at the rank of Assistant Professor in the area of Organic chemistry on or after July/2006.

**University of Calgary**, invites applications for a full time tenure track position in any area of Analytical Chemistry at the Assistant Professor level.

**George Washington University**, invites applications for a tenure track position at the Assistant Professor level beginning Aug. 2006 in Nanoscale Biomaterials. <http://www.gwu.edu/~gwchem>.

**University of Calgary**, Post Doctoral Fellowship in inorganic electrochemistry.

**Outreach Activities** can be accessed at: [www.ualberta.ca/Outreach/whats%20new.htm#science](http://www.ualberta.ca/Outreach/whats%20new.htm#science)

## Cartoon of the Week



*"What do you expect, since 90% of all the scientists who ever lived are alive today?"*

## Quote of the Week

Chemical: A substance that:

- 1) an organic chemist turns into a foul odor
- 2) an analytical chemist turns into a procedure
- 3) a physical chemist turns into a straight line
- 4) a biochemist turns into a helix
- 5) a chemical engineer turns into a profit.