


Chemistry Notices

For the Week of October 11 to October 15, 2010

VISITING SPEAKERS & SEMINARS

DEPARTMENT OF CHEMISTRY, UNIVERSITY OF ALBERTA
Inorganic Division Visiting Speaker



Dr. Andrew Grosvenor
Assistant Professor of Chemistry
Department of Chemistry
University of Saskatchewan
Saskatoon, SASK
Western University Exchange Speakers Program (WUESP)

will speak on

**"Final-state effects in X-ray spectra:
a solid-state study"**

Transition-metal oxides are an interesting, diverse class of materials which have numerous chemical compositions, structures, and applications. To tune these materials, the electronic structure can be adjusted through substitution. The structure of these materials can be determined by X-ray, electron, or neutron diffraction, however, to study how the bonding and charge distribution is influenced by substitution, spectroscopy is often used. In the solid-state chemistry group at the University of Saskatchewan, both X-ray absorption near-edge spectroscopy (XANES) and X-ray photoelectron spectroscopy (XPS) are used to investigate transition-metal oxides and silicates. Although these techniques have been used for decades, not all of the reasons for why the spectra can change are known. In this presentation, by examination of three ordered and amorphous systems ($\text{SrFe}_{1-x}\text{Zn}_x\text{O}_{3-x}$, $(\text{TiO}_2)_{1-x}$, and $\text{Fe}_{1-x}\text{Ga}_x\text{SbO}_3$), the influence of the final-state on the resulting spectral energies and lineshapes will be discussed. The study of these systems has increased our understanding of the influence the metal coordination, difference in electronegativity between the constituent elements, and the presence of next nearest-neighbour transition-metals can have on XANES and XPS spectra.

DATE: Thursday, 14 October 2010
TIME: 11:00 a.m.
PLACE: E3-25 Gunning/Lemieux Chemistry Centre

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Brian Worfolk
502 Seminar (Inorganic)

will speak on

*"Self-Assembly: From Oil-Water
to Inorganic Nanocrystals"*

**Wednesday, October 13
11:00 in Room E3-25**

EMPLOYMENT OPPORTUNITIES

Brandon University invites applications for a 6-month term leave replacement position in Chemistry at the rank of Assistant Professor/Lecturer. The start date for the appointment will be January 1, 2011. The successful candidate will teach courses from the core Chemistry curriculum. Preference will be given to candidates with expertise in chemical thermodynamics/physical chemistry, although suitably qualified applicants with expertise in other areas of Chemistry will also be considered.

Qualifications: The successful applicant must possess a Master's degree, a Ph.D. preferred, in an appropriate area of Chemistry, with appropriate experience. Experience in delivering undergraduate Chemistry programming is an asset.

EMPLOYMENT OPPORTUNITIES, *continued*

Application Deadline: October 30, 2010 or until position is filled. Applicants should send their curriculum vitae, statement of teaching experience, citizenship status and the names, addresses and e-mails of three referees. If applying via e-mail, submissions should be in a single file of reasonable size. Send to:

Dr. Austin F. Gulliver, Dean of Science
Brandon University
Brandon, MB R7A 6A9
gulliver@brandonu.ca

Gilead Alberta ULC is currently looking to fill the following positions:

1. One Ph.D. with post-doc/relevant working experience in organic synthesis
2. Two BSc/MSc with a few years of working experiences or fresh graduate with honors or specialization in organic chemistry
3. One BSc/MSc with a few years of working experience in analytical chemistry.

Candidates can send resumes to Dr. Zhongxin Zhou (Zhongxin.zhou@gilead.com) or Dr. Jesse Wang (jesse.wang@gilead.com) for organic chemistry positions or Dr. Lishi Ying (Lishi.ying@gilead.com) for the analytical chemistry position, or they can directly apply online at www.gilead.com.

SPECIAL EVENTS

UA-WiSE / WISER Industry Mixer

WISEST (Women in Scholarship, Engineering, Science and Technology) is pleased to invite you to the 4th Annual Industry Mixer. On October 14th, the undergraduate student group (UA-WiSE) and early career professional community (WISER) will be brought together with representatives from industry, government, academia and supporting organizations. This year we are excited to feature as our guest speaker, Ms. Kim Farwell, P.Eng – President of the Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA), who will share inspirational stories about her career path.

Join us for a fabulous evening of networking with the broader innovation community, exploring career options, connecting with mentors and being inspired by engaging speakers.
Food and refreshments will be provided.

When: Thursday, Oct 14th, 2010; 5:30pm – 9:00pm

Where: University of Alberta, ETLIC solarium

Cost: Free

RSVP: <http://www.wisest.ualberta.ca/>

RSVP by October 8th to guarantee a spot. Limited registration at door.

VOLUNTEER OPPORTUNITIES

The Chemical institute of Canada (CIC) Edmonton Section is in need of volunteers for its National Chemistry Week (NCW) Science exhibit for 2010 at TELUS World of Science. An NCW Volunteer typically volunteers for a 2-3 hour stint at the NCW booth. **All training in the reactions and demonstrations** is provided when you arrive. You need not bring any supplies. Please see the schedule below.

You will also earn a free (periodic table) NCW T-shirt of nearly the appropriate size (if it is too big at first it will fit well after a good hot wash), and the undying gratitude of yours truly, and the Executive Committee of the Edmonton Section of the CIC, for demonstrating some kitchen chemistry to kids (no homework required – demos provided by yours truly).

Volunteers are needed for the following times:

Saturday Oct 16 - TELUS World of Science, 9:30 – 17:00 hours (upper level)

9:30 – 12:30 hours (Set-Up) 4-Volunteers

12:00 – 14:30 hours 5-Volunteers

14:30 – 17:00 hours (Take down) 3-Volunteers

Sunday Oct 17 - TELUS World of Science, 9:30 – 17:00 hours (upper level)

9:30 – 12:30 hours (Set-Up) 3-Volunteers

12:30 – 15:00 hours 5-Volunteers

15:00 – 17:00 hours (Take down) 3-Volunteers

Saturday Oct 23 - TELUS World of Science, 9:30 – 17:00 hours (upper level)

9:30 – 12:30 hours (Set-Up) 4-Volunteers

12:00 – 14:30 hours 5-Volunteers

14:30 – 17:00 hours (Take down) 3-Volunteers

The event location address is as follows:

TELUS World of Science: 11211-142 Street NW, Tel: 780-452-9100

Email your volunteering requests (include a time/shift you'd be willing to assist) to

Ian.Phillips@epsb.ca asap within the next two weeks. (Volunteer requests will be awarded on a first-come first-served basis.)