


Chemistry Notices

For the Week of March 14 to March 18, 2011

VISITING SPEAKERS & SEMINARS

DEPARTMENT OF CHEMISTRY, UNIVERSITY OF ALBERTA
Inorganic and Materials Division Visiting Speaker

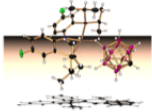


Dr. Oleg Ozerov
Professor, Department of Chemistry
Texas A&M University
College Station, Texas

will speak on

"Breaking and Making Bonds With Pincer Complexes"

PNP pincer ligands that utilize a tridentate diarylamido/(bis)phosphine framework provide an advantageous framework for the study of the reactivity of various transition metals in the bond-breaking and bond-making reactions. The reactions with group 9 and 10 complexes will be the focus of this presentation and can be classified according to the source of the filled and empty orbitals used in the cleavage of bonds in a substrate. In the chemistry of group 9 elements, neutral three-coordinate [(PNP)Rh] and [(PNP)Ir] fragments provide a pair of electrons and empty orbitals for the bond cleavage reactions via oxidative addition at the metal center. In the chemistry of group 10, the isolectronic [(PNP)M]⁺ cations cleave bonds by using an empty orbital at the metal center and the pair of electrons on the amido ligand. Alternatively, bond cleavage with group 10 complexes can be accomplished by using the two electrons of the M-M bond in the (PNP)M-M(PNP) dimers. The presentation will also discuss how the findings with the PNP ligands can point to new directions in rational ligand design. Ideally, these developments would lead to improved catalysis and discovery of unusual bonding and structural motifs.



DATE: *Thursday, 17 March 2011*
TIME: *11:00 a.m.*
PLACE: *E3-25 Gunning/Lemieux Chemistry Centre*

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EMPLOYMENT OPPORTUNITIES

The University of Alberta is seeking a PhD student or Postdoctoral fellow with NMR experience and interest in Microbial Glycobiology to start immediately. The successful candidate will be jointly supervised by Dr. Roderick Wasylshen (Department of Chemistry and Canada Research Chair in Physical Chemistry, <http://ramsey.chem.ualberta.ca/>) and Dr. Christine Szymanski (Department of Biological Sciences and Alberta Ingenuity Centre for Carbohydrate Science, http://www.biology.ualberta.ca/faculty/christine_szymanski/). The student will be involved in a multidisciplinary project examining bacterial capsular polysaccharides and developing new techniques to examine bacterial-host interactions using high resolution magic angle spinning NMR. The NMR Facilities in the Department of Chemistry are well equipped for the collaborative research project. Specifically we have access to a Varian 600 with a nanoprobe for magic-angle spinning experiments. Details of the other NMR spectrometers in the Department can be found at: <http://nmr.chem.ualberta.ca/>.

EMPLOYMENT OPPORTUNITIES, *continued*

Applicants should have a strong background in NMR and biological chemistry. Knowledge of solid-state NMR, molecular modeling and NMR programming would be an asset.

Interested applicants should send a single PDF document containing a CV, one-page statement of research interests and contact information of three references to:

cszymans@ualberta.ca

Vancouver Island University's Department of Chemistry is looking for a dynamic individual for a Chemistry Instructor position in the Faculty of Science and Technology (Nanaimo). This is a temporary faculty appointment for the 2011-2012 academic year, subject to funding and enrolment. The position is Temporary Part-time (up to full-time course load) from August 15, 2011 – May 18, 2012. The candidate will be expected to teach first-year general chemistry courses, and instruct first-year chemistry labs and second-year organic chemistry labs as needed.

Candidates must demonstrate commitment to teaching, learning, and student success through scholarship and institutional service. Successful candidates will participate in a wide range of activities outside the classroom, including student support; institutional, faculty and departmental committee meetings and other initiatives; and professional activities in keeping with their disciplines in and outside the institution. A Ph.D. in Chemistry from an appropriately accredited institution is required; recent relevant teaching experience is preferred.

Applicants are invited to submit a letter of application; a Curriculum Vitae; copies of recent teaching evaluations, if available; and names and contact information of three referees. Short-listed candidates must provide original transcripts, or applicable original certifications at time of interview. The posting period is February 17, 2011 - April 13, 2011.

The Department of Chemistry at Dalhousie University invites applications for a Limited Term Appointment (July 2011 to June 2014) at the rank of Instructor. Duties will include delivery of classroom instruction in introductory chemistry, including teaching and teaching related activities, advising and counselling of students, interacting with other faculty involved in the first-year program, maintaining resource materials, including on-line material, invigilating tests and exams, and preparation of class information sheets and other common material.

The position requires a minimum of a Ph.D. degree in Chemistry or equivalent. Some teaching experience would be an asset. Applications should consist of a curriculum vitae, teaching dossier and three reference letters sent by separate cover. The completed application should be sent **before February 22, 2011** to:

Dr. Neil Burford, Chair
Department of Chemistry, Dalhousie University
Halifax, NS B3H 4J3
Tel: 902-494-3707 Fax: 902-494-1310

OTHER OPPORTUNITIES

UA-WISE / WISER CAREER PANEL DISCUSSION UA-WiSE and WISER are pleased to invite you to our annual Career Panel Discussion

1. Meet a diverse panel of professionals in IT, Engineering, Biotechnology, Physical Sciences, Government, Academia and more
2. Panellists include the CEO & President of Teslacentral Enterprises; the Associate Chair (Graduate Studies) in the U of A's Department of Physics; an Industrial Technology Advisor at NRC-IRAP; an instructor from the Chemical Technology program at NAIT, and others
3. Ask the career-related questions you've always wanted answered
4. Network with the panellists and members of the WISEST networks

WHEN: Thursday, March 24, 5:30-8:30pm **WHERE:** TELUS Centre, (Room 236/238), University of Alberta North Campus (map:

<http://www.campusmap.ualberta.ca/index.cfm?campus=1§or=6&feature=59>)

COST: Free **RSVP:** By Mar 21 at

<http://www.wisest.ualberta.ca/en/WISEST%20Events/2011/03/UAWiSEWISERCareerPanel.aspx>

Food will be provided for attendees who RSVP in advance. *WISER activities support diversity in the workplace and encourage the participation of both men and women.*

ACPA Scholarship Applications Due March 31

Two scholarships of \$1000, one for chemistry undergraduates and one for chemistry graduate students, will be awarded by the ACPA this year. For details, please see the ACPA web page at <www.pchem.ca>. *The deadline for applications and for any supporting documentation is March 31.*

Call for Exhibits/Volunteers for Science Rendezvous Edmonton 2011

2011 is the International Year of Chemistry. The Chemical Institute of Canada and TELUS World of Science would like to establish **Science Rendezvous Edmonton 2011** as the inaugural one-day festival style celebration of chemistry and science at TELUS World of Science (TWOS) for all the public. **Science Rendezvous Edmonton 2011** runs from 10:00 a.m. to 4:00 p.m. on Saturday May 7. Consider exhibiting and help the public celebrate Science with us!

Who are you (in groups of 1-6 ...ideally 4)?

You are a group of people who might have: a few good hands on kitchen/household science or chemistry experiments/demonstrations that you'd like to show to folks of all ages.

You might be a college or university professor/ teacher/researcher/graduate student doing, or directing, research/work of import that you wish to show the general public.

You could be someone who will dress up and take on the persona of, a famous scientist (Einstein, Newton, Curie, Rutherford, Dalton, Priestly, Lavoisier, etc) for the day at TWOS.

You could be a drama student, or drama group, willing to perform a short scene/excerpt from a play featuring a scientist or scientists (Hoffman and Djerasi's *Oxygen*, Capek's *R.U.R.*, Brecht's *Galileo*, Durenmatt's *The Physicists*, Kipphardt's *In the Matter of J. Robert Oppenheimer*, Stoppard's *Arcadia*,

OTHER OPPORTUNITIES, *continued*

Andreyev's *To the Stars*, Maxim Gorky's *Children of the Sun*, and countless other suitable plays) – potentially in the foyer of TWOS.

A group of high school students, with their teacher willing, to demonstrate some research they've done or with exciting chemistry demonstrations to share.

A group of high school teachers demonstrating some exciting chemistry demonstrations they'd like to share.

A chemistry winner/finalist of the Regional Science fair contest.

An Association of local professionals (forensic scientists, fireman, EMTs, etc) who have a science demonstration the public just has to see.

Other relevant interested science group or company (...selling science not your services)

How long do you have to exhibit?

In shifts your group will man a table continuously from 10:00 am to 4:00 p.m. on May 7th, 2011. The precise location of your (8×4) table in TWOS will be determined at a later date.

What does each group member get for your volunteer labour?

The undying thanks of the organizing committee and a CIC Edmonton Volunteer T-shirt.

How do you apply to participate in Science Rendezvous Edmonton 2011?

You must email the following information to Ian Phillips (ian.phillips@epsb.ca)

Your Name: _____

Your Address: _____

Your Group's name: _____

Your Organization's name: _____

Your Group Members' names: _____

Your Activity: (Describe your exhibit in no more than 100 words)

There are currently only 30 spots available. Depending on the numbers and variety of entries for Science Rendezvous Edmonton 2011, there is no guarantee that your proposal will be accepted. Informal auditions at a yet to be chosen location (TBA) may be necessary to arrive at the final roster of participants. A call for volunteers is under consideration as of this writing.

Do not hesitate to telephone me at 780-448-5000 to talk to me in person if you need some clarification. I look forward to working with you in Science Rendezvous Edmonton 2011,

Dr. Ian G. Phillips (Teacher Ross Sheppard High school).