

Archived newsletter website – http://www.chem.ualberta.ca/news_seminars/2007/newsletter/contents.html

To submit an item for inclusion in the departmental weekly newsletter, please email the item to newsletter@chem.ualberta.ca.

Congratulations to: De-ann Rollings – one of our graduated Master's students from Dr. Veinot's group who is the new SEM operator at Earth and Atmospheric Sciences. She will bring with her all of the Chemistry background acquired within our department to this new opportunity. George Braybrook has retired from his position and will be passing all of his experience and knowledge to De-ann as she embarks on this new endeavour. Please call her at 492-5746 to book time on the machine.

New submission address: Please note the new address to send any of your event/speaker submissions to:
newsletter@chem.ualberta.ca

502 Seminar

Hosnay Mobarok, will speak on "*Ligand Field-Controlled Stability of Bio-Inspired Non-Heme Iron Complexes in Selective Alkane Oxidation*" on Wednesday, May 6, 2009 @ 11:00 a.m. in E3-25.

CUME Exams

Cummulative exams will be held on Saturday, May 2, 2009 at 11:00 a.m. in E3-25.

Visiting Speakers

Prof. Miguel A. Garcia-Garibay, Department of Chemistry and Biochemistry, University of California, Los Angeles, will speak on "Amphidynamic Materials and Molecular Machines: The Design, Fabrication and Testing of Crystalline Solids with Moving Parts" on Monday, May 25 at 11 a.m. in NRE 2-003 (Natural Resources Engineering).

Prof. Bradley Moore, Scripps Institution of Oceanography and Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California at San Diego, La Jolla, California, will speak on "*Chemistry and Biology of the Marine Natural Product Salinosporamide A, a potent inhibitor of the proteasome*" on Monday, May 11, 2009 @ 11:00 a.m. in MEC 2-1.

Prof. Daniel Leznoff, Department of Chemistry, UBC, will speak on "*Ancient metals in advanced materials: Linear d10-metal cyanide-based coordination polymers*" on Friday, May 22, 2009 @ 11:00 a.m.

Lecture Series Photo Identification: Copies of both the 2009 Boomer Lecture Series group photograph are posted on the bulletin board outside W4-35. There is some difficulty in identifying all the participants – if you were part of the group for either/both photograph(s) – please come by and identify yourself on the provided list. Please act promptly as we would like to have all participants identified before mid-May 2009. If you don't identify yourself – we'll make a name for you. Thank you for your help and cooperation.

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>.

University of Saskatchewan has an opening for a post doctoral position in aquatic and environmental analytical chemistry. Please see employment board for more information.

Zymeworks requires a research Associate: in computational biophysics. Please see employment board for more information.

GlaxoSmithKline in North Carolina has a research internship in Chemical Biology for a Canadian student who has completed a bachelor's degree in Chemistry with an additional year of post graduate training. Please see employment board for more information.

Biotica, UK requires a Natural products chemist as well as a molecular biologist. Please see employment board for more information.

CDRD is looking for individuals who have recently received their Ph.D. in organic chemistry or those who expect to complete their thesis shortly. Please see www.cdrd.ca for more information.

University of Alberta The Biogeochemical Laboratory in Biological Sciences is hiring for a summer laboratory technician. See postings by the mailboxes or email: BGCAlaboratory@ualberta.ca. information on the lab is available at: <http://www.biology.ualberta.ca/facilities/limnology>.

York University has an opening for a PDF position in the area of Atmospheric Chemistry. Please see employment board for more information.

Information and application for registration on the spring workshop on practical surface analysis using XPS, SIMS and AES @ University of Alberta, on May 27 & 28th, 2009 found below:

**SPRING WORKSHOP ON PRACTICAL SURFACE ANALYSIS
USING XPS, SIMS and AES**

University of Alberta, May 25 & 26th, 2009

The Alberta Centre for Surface Engineering and Science (ACSES) at the University of Alberta is hosting a two day workshop on surface analysis using ultra-high vacuum (UHV) techniques including X-ray photoelectron spectroscopy (XPS), Secondary ion mass spectroscopy (SIMS), and Auger electron spectroscopy (AES) / Scanning Auger microscopy (SAM). The workshop will start with a lecture presentation of the techniques (~3 hours) followed by ~3 hours of laboratory demonstrations and practical work for each of the ACSES instruments, i.e., XPS (AXIS-165, Kratos Analytical), SIMS (ToF SIMS IV, ION TOF GmbH) and AES (JAMP-9500F, JEOL). The workshop is aimed at graduate students, PhDs, faculty and researchers in academia or industry who are using or planning to use UHV surface analyses. The workshop does not replace any formal material characterization courses offered to students or training for independent instrument usage. Instead, the goal is to provide participants with knowledge and understanding of the techniques along with hands-on experience for sample preparation, selection of appropriate instrument modes and parameters, collection of spectra/images and data processing.

The presentation will cover the principles of each technique, vacuum requirements, instrumentation, advantages/disadvantages, typical applications (e.g., corrosion, catalysis, organics and biomaterials) and guidelines for sample preparation, selection of appropriate techniques, experimental planning and data interpretation.

The demos/training for each of the instruments will include procedures for sample loading and focusing, selection of parameters for analysis, preparation of batch files and data collection for spectroscopy, destructive and non-destructive depth profiling, and mapping/imaging. Data processing techniques will be illustrated using software provided by instrument manufacturers and some commercial computer programs. Selected samples of the participants can be run during the workshop, please contact us in advance if you want to use this opportunity.

The three hour sessions on both days will run from 900-1200 and from 1300-1600 hours. Training will be provided by ACSES staff. After the introductory session, participants will be divided into three groups which will rotate to the XPS, SIMS, or AES stations. Refreshments and two lunches will be provided. A fee of **\$100.00** for each participant will cover all activities, including meals, instrument time and handouts of the presentation. University of Alberta participants can pay by indent, while external participants should pay by cheque or money order made out to the University of Alberta – ACSES Workshop.

The number of the participants is limited. Registrations will be accepted till May 8, 2009 and the approved applicants will be advised by May 15th. Out of town attendees seeking on-campus accommodation can call (780) 492-6057 or visit www.ualberta.ca/conferenceservices for assistance.

Further details can be obtained by calling (780) 492-8576 or by visiting www.ualberta.ca/ACSES.

**WORKSHOP ON PRACTICAL SURFACE ANALYSIS
USING XPS, SIMS, AES, AND EDXS**

**University of Alberta
May 25 & 26th, 2008**

Name: Title:

Affiliation:

Address:

Telephone: E-mail address:

I have enclosed a cheque / money order / indent for \$100.00

Special dietary requirements, if any:

Manager / Supervisor:

Please return this form and payment to:

Leanne Swekla, Event Coordinator
ACSES Workshop
Department of Chemical and Materials Engineering
University of Alberta
7th Floor ECERF, 9107 – 116th Street
Edmonton, Alberta T6G 2V4
Phone: (780) 492-6281
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LAST DATE FOR REGISTRATION – FRIDAY, MAY 8, 2009