Chemistry Notices

For the Week of September 21 to September 25, 2015

Submissions: Please send to newsletter@chem.ualberta.ca by Wednesday for the following week's edition

VISITING SPEAKERS AND SEMINARS

The Harry Emmett Gunning Lecture Series

2015 Invited Lecturer

Professor Mark A. Johnson
Arthur T. Kemp Professor, Department of Chemistry
Yale University, New Haven, CT, USA

LECTURE TOPICS:
1. General audience:
   “Mass spec meets FTIR: The genesis and promise of cryogenic ion vibrational spectroscopy (CIVP)”
   Monday, 21 Sep 2015 at 02:00 p.m. E3-25, Chemistry
2. “Applications to catalysis: From stereoselective biomimetics to artificial photosynthesis”
   ➔ Tuesday, 22 Sep 2015 at 02:30 p.m. E3-25, Chemistry
3. “Back to basics: Proton defects in hydrogen bonded networks”
   Wednesday, 23 Sep 2015 at 02:00 p.m. E3-25, Chemistry
   For further information contact Prof. Yunjie Xu: yunjie.xu@ualberta.ca

Ho-Yan Sun
Ph.D Seminar (Organic)

will speak on

“Breaking New Ground with the Suzuki-Miyaura Reaction: Stereoselective Cross-Couplings of 1,1Diboronyl Alkanes”

Tuesday, September 22, 2015
4:00 p.m. in Chemistry Centre
Room E3-25

Organic Division 502 Seminar:
Alireza Bakhtiary will speak on
“Metal Catalyzed Transfer Hydrogenation C-C/C-N Bond Formation: Recent Advances and Applications” on Monday, September 21st, 2015 at 11:00 am in room CCIS 1-160.

Janelle Smiley-Wiens
Research Technologist
NOVA Chemicals

will speak on

“My Journey from the U of A to NOVA Chemicals”

Abstract: NOVA Chemicals is a leading producer of chemicals and plastics that are angled towards making everyday life easier, healthier and safer. Janelle Smiley-Wiens (BSc. 2013) will discuss her journey from studying at the University to working as a Research Technologist at NOVA Chemicals. NOVA Chemicals has two research facilities in Calgary and a large plant in Joffre, AB. NOVA Chemicals is an employer of chemists and engineers who work in many different roles. Chemist roles include laboratory work, technical service, plant support and management. Janelle will discuss the nature of her role as a Research Technologist and how her work impacts NOVA Chemicals’ progress to meet its business objectives.

DATE:        Wednesday, 23 September 2015
TIME:        11:00 a.m.
PLACE:       E3-25
Department of Chemistry and Biochemistry

Two Tenure-Track Assistant Professor Positions in
1) Sustainable Materials and Green Chemistry, and
2) Health Applications of Materials

The University of Windsor’s Department of Chemistry and Biochemistry invites applications for two tenure-track Assistant Professor positions as part of its expanding program in Materials Science in the areas of 1) Sustainable Materials and Green Chemistry, and 2) Health Applications of Materials commencing July 1, 2016. These positions are subject to final budgetary approval.

These positions are two of 50 new tenure-track Assistant Professor appointments that the University of Windsor will make over the next three years as part of a visionary strategic investment in our students and faculty. This cohort of 50 new teachers, scholars, researchers, and creators will demonstrate both disciplinary grasp and interdisciplinary reach, providing extraordinary leadership in research, teaching, and learning for a new generation. For more information on the 50 new appointments, visit us at www.uwindsor.ca/50newprofs/.

The Department of Chemistry and Biochemistry offers comprehensive undergraduate and graduate programs of study in Chemistry and biochemistry. Faculty members have active research programs in a variety of areas, including synthetic inorganic and organic chemistry, materials science, surface science, solid-state chemistry and biological chemistry. For more information about the Department of Chemistry and Biochemistry, visit our website at www.uwindsor.ca/chemistry.

Essential Qualifications

1) Sustainable Materials and Green Chemistry
   The successful applicant will have a Ph.D. in Chemistry, supported by postdoctoral experience, with a strong track record of publications in organic/materials related research and a strong commitment to excellence in teaching. The applicant will be expected to teach courses in organic and organic materials chemistry at the undergraduate and graduate levels. The successful candidate will be expected to lead an active research group in organic materials chemistry with a focus on research relating to, but not exclusively limited to, sustainable materials, environmentally benign materials and/or materials processing for a greener environment. The applicant is expected to develop a vibrant research program supported by external funding and will have opportunities for collaborations with materials researchers in Science and Engineering.

2) Health Applications of Materials
   The successful applicant will have a Ph.D. in Chemistry or Biochemistry, supported by postdoctoral experience, with a strong track record of publications in the fields of (Bio) materials and Health Science or related research and a strong commitment to excellence in teaching. The applicant will be expected to teach courses in chemistry and/or biochemistry at the undergraduate and graduate levels. The successful candidate will be expected to lead an active research group in the development and/or application of (bio) materials to the field of Health Science. The applicant is expected to develop a vibrant research program supported by external funding and will have opportunities for collaborations with materials researchers in Science and Engineering.

Application Requirements - a letter of application, including a statement of citizenship/immigration status; a detailed and current curriculum vitae; a two (2) page outline of research interests and accomplishments; a draft U.S. National Science Foundation research proposal (up to 5 pages); samples of scholarly writing, including (if applicable) clear indications of your contribution to any jointly authored pieces; a teaching dossier or teaching portfolio showing evidence of teaching effectiveness and excellence that will include sample course syllabi/outlines, teaching evaluations, and a statement of teaching philosophy and interests (resources and templates for completing a teaching dossier can be found at www.uwindsor.ca/cf/links-pdf); graduate transcripts, and three (3) current letters of support forwarded directly by the referees to the Department Head at the address or email listed below.

Only those applicants selected for interview will be contacted. The short-listed candidates may be invited to provide further information in support of their applications. To ensure full consideration, complete an online application (www.uwindsor.ca/facultypositions) found on the job advertisement, and ensure letters of reference are submitted by the deadline date of November 13, 2015. Applications may be considered after the deadline date; however, acceptance of a late submission is at the discretion of the appointment committee.

Questions and Reference Letters to be sent to:
Dr. Bulent Mutus, Head, Chemistry and Biochemistry, Faculty of Science, University of Windsor, 401 Sunset Avenue, Windsor, Ontario Canada N9B 3P4, Phone: 519-253-3000 Ext. 3526; Email: chembiohead@uwindsor.ca

University of Windsor is a comprehensive research and teaching institution with more than 16,050 students. The University of Windsor is a welcoming community that is committed to diversity in its teaching, learning, and work environments. In pursuit of the University’s Employment Equity Plan, members from the designated groups (Women, Aboriginal Peoples, Visible Minorities, Persons with Disabilities, and Members of Sexual Minorities) are encouraged to apply and to self-identify. For accessibility related accommodation, please notify the Faculty Recruitment Coordinator (recruit@uwindsor.ca). More general information on the University’s accessibility policy can be found on the Office of Human Rights, Equity & Accessibility website (www.uwindsor.ca/ohrea). All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

www.uwindsor.ca/facultypositions
PhD Student Position microalgae transcriptomics and water purification

THE OPPORTUNITY

Immediately available PhD position as part a collaborative team investigating the use of a microalgae to remove contaminants from contaminated water. The collaboration is between Trent University, Fleming College and Noble Purification. The successful candidate will be responsible for optimizing RNA isolation from the microalgae and creating and analyzing RNA seq libraries from microalgae exposed to specific environmental contaminants (e.g. rare earth elements or heavy metals). Key in this work will be identifying changes in expression levels of genes that are upregulated during the growth phase, which prepares the microalgae for contaminant uptake. The student will be supervised by Barry Saville, Associate Professor and Director of Forensic Science at Trent University, Noble Purification and other team members. The results of this work have ecological implications and application to water purification. Student must meet the criteria for entrance into graduate studies in the Environmental and Life Sciences Graduate Program a Trent University and, preferably, previous related laboratory and bioinformatics experience although training will be provided.

Noble Corporations was founded in September 2013 in Peterborough, Ontario under the leadership of international award winner, Adam Noble, and PhD, Andressa Lacerda. As a next generation algae company we research, cultivate and market a unique microalgae capable of transforming a variety of markets. Noble boasts patented methods and technologies; strategic business and research partnerships, a large-scale algae cultivation prototype and algae wastewater treatment prototype, large target markets, and strong company leadership.

HOW TO APPLY? Please email your CV and cover letter to Dr. Barry Saville, Associate Professor and Director of Forensic Science at Trent University, barrysaville@trentu.ca if you are interested in applying for this position. Note that only those candidates selected for an interview will be contacted.

Trent University is actively committed to creating a diverse and inclusive campus community and encourages applications from all qualified candidates. Trent University offers accommodation for applicants with disabilities in its recruitment processes. If you require accommodation during the recruitment process or require an accessible version of a document/publication, please contact Dr. Barry Saville at barrysaville@trentu.ca
Two Canada Research Chairs (Tier 1 and Tier 2) in Materials Chemistry

Department of Chemistry, Faculty of Science, York University

The Faculty of Science seeks to appoint two Canada Research Chairs (CRCs) – one Tier 1 and one Tier 2 – in Materials Chemistry as part of York University’s commitment to achieve international excellence in materials science. Applications are invited from outstanding established and emerging world-class researchers with expertise in the synthesis and property characterization of advanced inorganic, organic or biomaterials. Of particular interest would be candidates whose research complements York’s existing strengths and interfaces with cognate research efforts in such areas as biosensors, solar cells, nanomaterials and tissue engineering, and those able to recruit and supervise graduate students in both the Chemistry and Physics programs.

The successful candidate for the Tier 1 Chair should have a Ph.D. in chemistry or a related discipline and is expected to be an internationally recognized research leader at the top of their field, preferably holding the rank of Full Professor. The incumbent should have an outstanding research record demonstrating excellence and eminence in the field, and a proven ability to attract substantial peer-reviewed external research funding. The incumbent will also have a superior record of attracting and supervising graduate students and postdoctoral fellows, demonstrated excellence in teaching, and the capacity to initiate and develop collaborative relationships with other researchers in related fields. The successful candidate will be expected to foster research linkages within and beyond York, and provide strong and effective leadership for the growing faculty complement in Materials Chemistry.

The successful candidate for the Tier 2 Chair should have a Ph.D. in chemistry or a related discipline and a minimum of three years of postdoctoral experience at the time of taking up the appointment, with a prior faculty appointment, or equivalent qualifications, preferred. Tier 2 Chairs have a five-year term, are once renewable, and are intended for exceptional emerging researchers (i.e., typically with less than 10 years experience as an active researcher in their field, with consideration for career breaks) who have the acknowledged potential to lead their field of research. The successful candidate will be appointed to a tenure-track position at the Assistant or Associate Professor level. The incumbent should have an outstanding early career record including training and research awards and publications in high-quality refereed journals, with clear evidence of cross-disciplinary collaboration. The incumbent is expected to propose or have initiated an original and innovative independent research program in Materials Chemistry, and is also expected to demonstrate excellence or promise of excellence in graduate supervision and teaching and be eligible for prompt appointment to the Faculty of Graduate Studies.

Further information about the Department of Chemistry and the Faculty of Science can be found at http://science.yorku.ca. Eligibility criteria and CRC program information can be found at http://www.chairs.gc.ca. Both Chair awards are subject to approval by the CRC program review process. The start date for the position is July 1, 2016 or as soon as possible thereafter. The deadline for full consideration of applications is October 15, 2015. Applicants should indicate which position they are applying to, and submit (as hard copy only) a curriculum vitae, an outline of their research plans, a statement of teaching philosophy and experience, single copies of three most influential publications, and arrange for three signed letters of reference to be sent directly to:

Chair, CRC Search Committee
c/o Mary Mamais
Department of Chemistry
Chemistry Building, CB-124
York University, 4700 Keele St.
Toronto, Ontario M3J 1P3, Canada,

All York University positions are subject to budgetary approval. York University is an Affirmative Action (AA) employer and strongly values diversity, including gender and sexual diversity, within its community. The AA program, which applies to Aboriginal people, visible minorities, people with disabilities, and women, can be found at http://yorku.ca/acadjobs or by calling the AA office at 416-736-5713. All qualified candidates are encouraged to apply; however, Canadian citizens and Permanent Residents will be given priority.
On behalf of the Biorefining Conversions Network (BCN) and Alberta Innovates Bio Solutions (AI Bio), we cordially invite you to attend the 6th Annual BCN Meeting called Bioindustrial Innovations: Unlocking Value and Tackling Climate Change, which will be held on November 22-25, 2015, in Edmonton, Alberta. Thus far, confirmed plenary speakers/moderators include:

- Andreea Strachinescu, Unit Head, New Energy Technologies, Directorate General for Energy, European Commission
- Matthew Carr, Executive Director, Algae Biomass Organization
- Jim Grey, CEO, IGPC Ethanol Inc.
- Murray McLaughlin, Executive Director, Bioindustrial Innovation Canada
- Andreas Hornung, Director, Institute Branch Sulzbach-Rosenberg, Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT
- Rebecca Boudreaux, President, Oberon Fuels
- Jack Saddler (moderator), Professor, University of British Columbia
- Andrew Leach (moderator), Associate Professor, University of Alberta

Abstracts for oral and poster presentations can be submitted to bcn@ualberta.ca with the subject title "2015 BCN – AI Bio Conference: Abstract Submission” until September 25, 2015. Applicants should indicate their job title and affiliation, as well as whether a poster and/or oral presentation is preferred, in the submission.

Registration for the conference can be found here. Be sure to register before September 25, 2015, and take advantage of the early early bird discount.

For questions about programming, accommodation or logistics please contact: Lauren Mercier: lgmercie@ualberta.ca or 780-492-5685. For questions about registration, communication, advertisement or sponsorship opportunities please contact: Victor Cheng: vcheng@ualberta.ca or 780-492-1760.

We hope to see you in Edmonton in November!