Chemistry Notices

For the Week of September 23 to September 27, 2013

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

VISITING SPEAKERS & SEMINARS

DEPARTMENT OF CHEMISTRY, UNIVERSITY OF ALBERTA

INORGANIC DIVISION
VISITING SPEAKER

Professor Michael Heinekey
Department of Chemistry
University of Washington
Seattle, Washington, USA

will speak on

“Deoxygenation of Polyols Catalyzed by Iridium Complexes”

DATE: Tuesday, 24 September 2013
TIME: 11:00 a.m.
PLACE: E3-25 Gunning/Lemieux Chemistry Centre

Houston Brown
Ph.D Seminar

will speak on

“Mixed-Valence First-Row Metal Clusters for Catalytic Hydrodesulfurization and Hydrodeoxygenation”

Tuesday, September 24
2:00 p.m. in CAB 243
Post-Doctoral Fellow Position in Organic Solar Cells (Synthetic)

The Position:
There are two positions available at the post-doctoral level in the Welch research group within the Department of Chemistry at Dalhousie University (http://www.dal.ca/diff/welch-research-group.html) to work on projects in the area of organic solar cells. The positions are funded by an industrial partner and are focused on assisting the industrial partner in developing their solar cell technology. Candidates will benefit from working on highly lucrative projects with both academic and industrial importance and gain valuable industrial connections.

This project will focus on the development of soluble (in organic solvents) organic p-conjugated small molecules (i.e. non-polymeric) with tailored properties for use as light harvesting and hole transporting (i.e. donor) materials in organic solar cells. The goal of the project is to develop new donor soluble organic p-conjugated small molecules that will lead to increased power conversion efficiency and operational lifetime of organic solar cell devices when utilized as an active layer component when combined with fullerene based acceptors.

Roles and Responsibilities:
- Synthesis and characterization of organic p-conjugated small molecules proposed by the PI
- Design of new organic p-conjugated small molecules
- Weekly updates/progress reports submitted to the PI
- Monthly interaction/updates with the industrial sponsor
- Submission of quarterly reports (with assistance of PI) to industrial sponsor
- Preparing manuscripts and attending approved conferences
- Laboratory up-keep and mentoring of junior staff and students within the Welch laboratory

Qualifications:
Required:
- Completed Ph.D. in synthetic chemistry or materials science
- Experience with synthetic organic and organometallic chemistry
- Proficient with NMR, IR, Mass, and UV-Vis spectroscopy
- Proficient in the handling of oxygen and water sensitive materials
- Highly motivated, extremely organized, excellent written and verbal presentation skills

Beneficial:
- Proficient with the use of microwave reactors and automated flash chromatography systems
- Experience in the synthesis of organic p-conjugated materials
- Experience in the field of organic solar cells
- Experience with computational modelling of organic materials (i.e. DFT calculations)

Applications:
Applications should contain the following:
- Maximum 4-page CV highlighting research and academic achievements
- Maximum 2-page summary of research interests in organic solar cells, career goals, and why you are an ideal candidate
- Proof of eligibility to work in Canada if not a Canadian citizen or resident

Please submit applications to Dr. Gregory C. Welch, Department of Chemistry, Faculty of Science, Dalhousie University, 6274 Coburg Road, PO Box 15000, Halifax, NS B3H 4R2. GREGORY.WELCH@DAL.CA. Hard copies are preferred. If email, use ‘INDSTRY POST-DOC APPLICATION’ as subject. Applications will be accepted until both positions are filled.

Salary and dates:
Salaries will range from $35000-$39000 including benefits depending on qualifications. Both are one year positions with possible extensions and salary increases upon approval of both principle investigator and industrial sponsor. Anticipated start date is September-December 2013.
Tenure-track assistant professorship in analytical chemistry available in Groningen

The link to the ad follows:


The Department of Chemistry, University of Toronto, is seeking a Ph.D. level Research Associate (Limited Term) to join Professor Andrei Yudin's group. The successful candidate is expected to have extensive experience in cyclic peptide synthesis and characterization. The candidate must be well familiar with advanced NMR techniques aimed at elucidating three dimensional structure of complex cyclic peptide molecules. In addition, the candidate is expected to have extensive training in molecular modeling using Schrodinger software.

Please send your Curriculum Vitae to Professor Robert Batey, Chair, chair@chem.utoronto.ca. We will accept applications until the position is filled. The expected start date is January 1st, 2014.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Date posted: September 5, 2013. Position will remain open until filled.
Dear Department Chair,

The Department of Chemistry at the University of Kentucky is seeking candidates for two tenure-track assistant professor faculty positions. For one position, we are interested in candidates whose research involves applications-driven computational chemistry. We are particularly interested in candidates who utilize computational approaches to investigate important energy-related questions and who can teach at all levels in the chemistry curriculum. For the second faculty position, the research area is open but we are interested in candidates whose research can build upon existing Departmental and University strengths in energy materials and in biological chemistry. These positions have a start date of August 2014. A Ph.D. is required and postdoctoral experience is highly desirable.

Our Department houses research programs in all areas of chemistry and has a vibrant graduate program. The Department currently has 27 faculty members and offers BA and BS undergraduate degrees (including a BS with Biochemistry option), as well as MS and Ph.D. graduate degrees. The Department has close ties to UK interdisciplinary research centers, including the Sanders-Brown Center on Aging (http://www.uky.edu/coa/), the Markey Cancer Center (http://ukhealthcare.uky.edu/markey/) and the Center for Applied Energy Research (www.caer.uky.edu), which is the site of the Kentucky-Argonne National Battery Research and Manufacturing Center.

The University of Kentucky is a land-grant University with on-campus schools of Business, Dentistry, Law, Medicine, and Nursing. The UK student body numbers over 29,000 undergraduate, graduate, and professional school students. The University is located in Lexington, a city of 300,000 in the center of the scenic Bluegrass region of Kentucky.

We would be grateful if you would circulate this email within your department and bring this position to the attention of promising candidates. Details of the position can be found on our website http://chem.as.uky.edu/chem-faculty-positions which also includes instructions for submission of applications. We will begin reviewing the applications on October 14, 2013.

The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographical region. It is committed to becoming one of the top public institutions in the country. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply. The University also supports family-friendly policies.

Thank you for your assistance.

Sincerely,

Mark Meier
Professor and Chair
Department of Chemistry
Canada Research Chair, Tier II, Clean Energy

Department of Chemistry, Faculty of Science, University of Calgary

Applications are invited from emerging leaders in the area of Clean Energy for a Tier II Canada Research Chair (http://www.chairs-chaires.gc.ca/home-accueil-eng.aspx) at the University of Calgary. The chair will be housed in the Department of Chemistry, in the Faculty of Science. Details for this position appear at: http://www.ucalgary.ca/chem.

Candidates will have demonstrated potential to conduct cutting edge experimental research in any sub-discipline of chemistry that is germane to clean energy, broadly defined. Applicants with research interests in the development of a clean energy future using alternative or conventional strategies (e.g., photovoltaics, hydrogen production and storage, catalysis, ultrafast spectroscopy, nanomaterials, or sensor technology) are encouraged to apply. The goal is to identify the strongest candidate; while candidates with interests that complement existing research groups may be given priority, excellence and potential to develop a world-class research program relevant to clean energy will be the prime directive in completing this search.

The successful CRC candidate will lead a vibrant team of graduate students and postdoctoral fellows and be expected to be a key leader in the community of like-minded researchers at the University of Calgary. State-of-the-art chemistry laboratories in the award-winning EEEL Building will provide ample opportunity for developing collaborations and interacting with other scientists in a multidisciplinary environment. The search will focus on identifying those rare individuals who have the ideal combination of raw talent and the ambition to use it to perform world-renowned chemical research.

Applicants should send a CV, a concise description of their research area and program, a statement of teaching philosophy, and arrange to have at least three reference letters sent to:

Dr. David Cramb, Head
Department of Chemistry
University of Calgary
2500 University Drive NW
Calgary, Alberta, Canada T2N 1N4
Or email to: chemistry.crcsearch@ucalgary.ca

Completed applications received by November 15, 2013 will receive full consideration, though the review process will continue until the position is filled. Hiring decisions will be finalized in early 2014. The successful applicant will develop with the University of Calgary the Canada Research Chair application for the April 2014 deadline, with the goal of joining the University of Calgary on January 1, 2015.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Calgary respects, appreciates, and encourages diversity.

To see all University of Calgary academic positions, please visit www.ucalgary.ca/hr/career.
The Department of Chemistry at the University of British Columbia (www.chem.ubc.ca) invites applications for a Tier 2 Canada Research Chair position in any area of Chemistry that will advance innovation in Sustainability. The focus of chair can be in diverse areas such as: environmental chemistry, for example, air or water quality, climate change, transport and fate of pollution in water, soil or air; green chemistry, for example, efficient heterogeneous catalysis, improved efficiency and environmental safety in chemical syntheses, chemistry of biomass/renewable or gaseous feedstocks; or materials chemistry, for example, polymer or membrane chemistry, organic materials for alternative energy applications, nanomaterials for energy conversion or environmental remediation.

The position requires a Ph.D. degree in Chemistry, postdoctoral experience and an excellent research track record. The successful candidate will develop and maintain a dynamic research program. As a faculty member in the Department of Chemistry the successful applicant will be expected to effectively supervise graduate students, collaborate with other faculty members, obtain external funding, effectively teach undergraduate and graduate Chemistry courses and actively participate in departmental activities.

The successful candidate will be eligible to hold an appointment at the tenure-track Assistant Professor level but a higher rank may be considered for applicants with exceptional qualifications and experience. The anticipated start date is July 1, 2014.

UBC hires on the basis of merit and is committed to employment equity. All qualified persons are encouraged to apply. UBC is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, persons of any sexual orientation or gender identity, and others who may contribute to the further diversification of ideas.

Canada Research Chairs are open to individuals of any nationality; offers will be made in accordance with the Canadian Research Chair program. Information about the Canada Research Chair program can be found at http://www.chairs-chaires.gc.ca/.

Applicants should send curriculum vitae, a list of publications, a summary of research interests, a detailed research proposal, a statement of teaching philosophy and experience and arrange to have three reference letters sent directly to:

Chair, CRC Tier 2 Search Committee
2013crcsearch@chem.ubc.ca

Review of applications will begin November 15th, 2013 and will continue until the position is filled.
Postdoctoral Fellows Research Day – September 25

Celebrated every year to recognize and highlight research initiatives of our registered fellow members, and ultimately to network with several organizations. This year, Research Day will be celebrated in association with Career Day, organized by CAPS. This year PDFA members will have the opportunity to present Research Posters at dedicated space in the Butterdome during the Career day, where several companies will be present to hire candidates of their interest. This will also allow us to network with several organizations and businesses during this day. The Research Day will be followed by a reception with refreshments for all registered PDFs highlighting “The Marketable Postdoc”, where you will have more opportunity to interact with representatives of several organizations that are interested in hiring people with graduate degree and PDF experience. If you are interested in presenting a poster, please forward the title, your name and department to the PDFA (pdfa@ualberta.ca) or register online at

http://pdfaualberta.wordpress.com/join-us/. There is a limit on the number of poster boards so please send us your details soon to avoid any disappointment. For more info about the Career Day, visit http://www.caps.ualberta.ca/Employers/Services/CareerFairs/CareersDay.aspx
William Jacobs, Jr., PhD, was first introduced to bacteriophages (viruses that infect bacteria) during graduate studies. Mycobacteriophages have since become invaluable tools in his research. Dr. Jacobs uses phages to genetically manipulate Mycobacteria; a process now used by international investigators to mutate and transfer Mycobacterial genes. Multiple breakthroughs followed including: isolation of a rapidly growing mutant strain of mycobacterium amenable to genetic manipulation, the expression of foreign proteins in the bacille Calmette-Guérin vaccine, and the incorporation of a luciferase gene into Mycobacterium to aid in rapidly screen antimicrobial drugs. With these tools, Dr. Jacobs has identified drug targets and novel virulence factors of M. tuberculosis (MTB), many of which are enzymes or products of complex lipid metabolism unique among bacterial pathogens. His lab uses this knowledge to develop novel chemotherapies, vaccines and diagnostic tests to treat tuberculosis.

Dr. Jacobs has received multiple awards for his pioneering work on MTB—a bacteria that causes about 10 million cases of tuberculosis and 2 million deaths a year. He also holds several patents, authored over 200 publications and is currently leading efforts to establish a South African Research Institute for TB and HIV on the Nelson R. Mandela School of Medicine campus in Durban.