VISITING SPEAKERS AND SEMINARS

Materials/Inorganic Division Visiting Speaker

Dr. Roie Yerushalmi
Associate Professor
Institute of Chemistry
The Hebrew University of Jerusalem

will give a presentation on

Nanoscale building blocks with electronic and structural heterogeneity. Shaping by post-synthesis modifications: ex-situ doping and self-processing synthesis

Monday, January 25, 2016
11:00 am – 12:00 pm  CCIS 1-160

Contact Jillian Buriak/Kelli Luber to meet with the speaker

Department of Chemistry
University of Alberta
PHD Seminar
Organic Chemistry Division

Name: Taras Rybak (Hall group)
Title: Preparation of Polysubstituted Pyrans Toward the Synthesis of Biologically Active Compounds
Date: January 22, 2016
Time and Location: 3:30 pm, E3-25
The National High Magnetic Field Laboratory (NHMFL) is searching for a research faculty member to assist the Ion Cyclotron Resonance (ICR) Program instrumentation group. The ideal candidate for this Research Faculty I position will be a scientist with experience in the field of mass spectrometry and/or trapped ion physics with a record of significant scholarly activity and at least five (5) years of experience in mass spectrometry technique development, ion transfer and trapping optics simulation, design, and fabrication, and electronics and software to support instrumentation. The Instrumentation Research Faculty will work with the FT-ICR Facility permanent staff to implement and promote improvements in the instrumentation program ensuring that the measurement capabilities remain state of the art. Ability to bring new methods and technology to the NHMFL FT-ICR User Facility is a plus. The candidate will collaborate with NHMFL staff, co-supervise graduate students and postdoctoral fellows, and prepare applications for external grant support. Candidates are expected to have a Ph.D. and postdoctoral training in mass spectrometry instrumentation. Experience supporting users or managing any shared research resource is desirable.

If interested or know of a qualified candidate, please apply to Florida State University at https://jobs.omni.fsu.edu by January 19th (keyword search is 39660). Additional information is also available at this website.

If you have any questions or need any additional information, please contact Chris Hendrickson, Director of the ICR program, at hendrick@magnet.fsu.edu.

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**DEPARTMENT OF CHEMISTRY**  
**Tenure-Track Position**

The Department of Chemistry at St. Francis Xavier University invites applications for a probationary tenure track appointment at the rank of Assistant Professor to begin July 1, 2016. The successful candidate will be responsible for teaching introductory and advanced courses in biochemistry at the undergraduate level. The successful candidate will also be expected to contribute to general faculty duties in the Department and the University, and to develop an externally funded program of research in biochemistry. Independent and collaborative research opportunities are available and encouraged within the Department and within the University. Excellence in teaching and evidence of a well-defined program of research and potential for its development are expected.

Applicants should provide curriculum vitae, a statement of teaching interests and philosophy, a statement of research interests, and the names, addresses, and telephone numbers of three referees. Applications should be sent to:

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\text{Dr. James Cormier, Chair} \\
\text{Department of Chemistry} \\
\text{St. Francis Xavier University} \\
\text{P.O. Box 5000, Antigonish NS B2G 2W5} \\
\text{Email: jcormier@stfx.ca; Telephone: 902-867-5080}
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The review of applications will begin on February 1, 2016 and will continue until the position is filled. The Selection Committee would like to thank all applicants for their interest in St. Francis University, however, only those selected for interviews will be contacted.
Molecular Toxicology and Green Chemistry: Assistant/ Associate Professor, McGill University

McGill University is seeking candidates for a tenure-track position at the Assistant/ Associate Professor level to be appointed jointly in the Department of Pharmacology and Therapeutics (Faculty of Medicine) and in the Department of Chemistry (Faculty of Science). This position is an integral component of the Canada Excellence Research Chair (CERC) in Green Chemistry held by Prof. Robin Rogers in the Dept. of Chemistry. A successful applicant will be nominated for a prestigious Tier II Canada Research Chair.

Qualifications for this position include a PhD, MD or equivalent and postdoctoral experience. The preferred applicants will have an established track record of research excellence in the field of chemical and molecular toxicology, and be knowledgeable about Green Chemistry. The successful applicant is expected to develop an independent research program, work in a multidisciplinary research environment, have a strong biomedical, chemical, molecular biology and/or clinical background, and have research interests and expertise that would preferably complement existing strengths within the Departments of Pharmacology and Therapeutics and of Chemistry. Strong emphasis will be placed on interdisciplinary research.

A selected applicant will have a strong commitment to undergraduate and graduate student education. Successful applicants will also be expected to make contributions to areas of service. Salary and rank will be commensurate with qualifications and experience.

Qualified applicants should submit electronically their application package. Note that only 2 uploads will be accepted. The first upload should include in one document: a cover letter, and a detailed and dated curriculum vitae (including five recent publications). In the second upload also in one document please include: a 3-pages statement outlining research goals and approaches plus a statement of teaching experience and interests. Please also include in the online application the names, institutions and emails of three references.

Please reference the source of the ad in your cover letter when applying for, or inquiring about, this job announcement.

McGill University is a leading Canadian university, consistently ranked among the top universities in the world. It is located in downtown Montreal, a lively city with high quality of life and access to arts, culture and sports.

Please submit complete packages online at: https://www.mcgill.ca/medicine-academic/positionsavailable. Deadline for applications to be received is within 30 days of the publication of this ad however application may be accepted until the position has been filled.

McGill University is committed to diversity and equity in employment. It welcomes applications from: women, Aboriginal persons, persons with disabilities, ethnic minorities, persons of minority sexual orientation or gender identity, visible minorities, and others who may contribute to diversification. All qualified applicants are encouraged to apply; however, Canadians and permanent residents will be given priority.

All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority.
Assistant Professor – Teaching Stream – Laboratories in Applied Chemistry - Department of Chemical Engineering & Applied Chemistry, University of Toronto Requisition #1501657

The Department of Chemical Engineering and Applied Chemistry at the University of Toronto invites applications for a continuing Teaching Stream appointment at the rank of Assistant Professor, Teaching Stream. The expected start date is July 1, 2016.

Candidates are expected to demonstrate capacity for outstanding teaching, which will include developing and delivering undergraduate laboratories. Our most immediate need is in the delivery of our undergraduate laboratories in applied chemistry including organic, inorganic and kinetics/thermodynamics. Though our primary objective is teaching excellence, particularly in the experiential/laboratory setting, we also expect that the successful candidate will be actively engaged in pedagogy and lead positive change in our educational programs. The successful candidate should have a Ph.D. in Chemistry, Chemical Engineering or a related discipline by the time of appointment, or shortly thereafter.

The successful candidate will have: demonstrated excellence in teaching and pedagogy; a strong background in chemistry, chemical engineering and their application; and have excellent organizational and communication skills. A background in biology would be an asset. Evidence of excellence in teaching will be demonstrated through teaching evaluations, letters of reference and the teaching dossier submitted as part of the application. Salary will be commensurate with qualifications and experience. Given the emphasis on applied chemistry, for this position we will not require candidates be eligible for Professional Engineering registration; however, having such eligibility would be considered an asset.

The CHE Department consistently ranks among the top in Canada and attracts outstanding undergraduate and graduate students, has excellent facilities, and is ideally located in the middle of a vibrant cosmopolitan city. Additional information is at www.chem-eng.utoronto.ca.

All qualified candidates are invited to apply by clicking on the link below. For further information about the application process, please see the submission guidelines at http://uoft.me/how-to-apply.

Applicants shall provide a curriculum vitae and a teaching dossier (including a statement of teaching philosophy and interests). Applicants should arrange to have three letters of reference (on letterhead, signed and scanned) sent directly to Professor D. Grant Allen via email at facultysearch.chemeng@utoronto.ca.

All Application documents must be received by March 15, 2016.

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.
Tier 1 Canada Research Chair Search: Electrochemistry, Nanoscience and Surface Science

The Department of Chemistry at the University of Guelph is searching for Canada Research Chair (Tier 1) candidates in one or more of the fields of Electrochemistry, Nanoscience, and Surface Science, all broadly defined. The tenured appointment will be at the Associate Professor or Full Professor level, according the successful applicant’s qualifications and experience.

The successful applicant will have a Doctoral (or equivalent) degree, a proven record of internationally recognized research and visibility relevant to the research field(s) identified above, a significant and sustained record of scholarly publications in high-level peer-reviewed journals, a strong capacity for both independent and collaborative research, and proven motivation and pedagogic abilities at both the undergraduate and graduate levels.

The successful applicant will be expected to develop and expand upon their current research activities, as well as develop innovative and original research directions. The selected applicant will be expected to support these research activities through peer-reviewed Canadian and international funding opportunities. It is expected that these research initiatives will be pursued in collaboration with undergraduate students, graduate students, and post-doctoral researchers.

The Department of Chemistry (www.chemistry.uoguelph.ca) in the College of Physical and Engineering Science at the University of Guelph has a strong tradition of scholarship and teaching. Our undergraduate programs in Chemistry, Biological and Pharmaceutical Chemistry, Toxicology, Chemical Physics, and Nanoscience (the latter two are joint programs with the Department of Physics) attract high calibre students from across Canada. We are equal partners with the University of Waterloo in the Guelph-Waterloo Centre for Graduate Work in Chemistry and Biochemistry, (GWC) (www.gwc2.on.ca), which attracts top-level graduate students from across the globe. Our academic environment is strongly supportive of innovative research and teaching, and all interviewed applicants will be given the opportunity to demonstrate their skills in both of these essential roles.

The current research activities of the Department are supported by major infrastructure resources of characterization and analytical instrumentation, including the Advanced Analysis Centre (AAC) (www.uoguelph.ca/aac) and the Electrochemical Technology Centre (ETC) (www.chemistry.uoguelph.ca/etc). The ETC is the centrepiece of the Department’s instrumentation base, providing infrastructure support to academic and industrial research in the region, with material characterization tools operating from the atomic to macroscopic length scales. The successful applicant will assume the role of ETC Director.

A complete application package will include a lifetime Curriculum Vitae, a 5-page research proposal in NSERC Discovery Program format (www.nserc-crsng.gc.ca/Professors-Professeurs/Grants-Subs/DGIGP-PSIGP_eng.asp), materials for a lecture presentation appropriate for a third or fourth year Electrochemistry, Nanoscience or Surface Science course, and the names and contact information of three appropriate references. Applicants are encouraged to familiarize themselves with the Canada Research Chairs program (www.chairs-chaires.gc.ca/home-accueil-eng.aspx) prior to submitting their application package. Evaluation of application files will begin February 16, 2016, and will continue until the position is filled.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

The University of Guelph is committed to equity in its policies, practices, and programs, supports diversity in its teaching, learning and work environments, and ensures that applications for members of underrepresented groups are seriously considered under its employment equity policy. All qualified individuals who would contribute to the further diversification of our University community are encouraged to apply.

Please send complete applications to:

Prof. Paul Rowntree
Chair, Department of Chemistry
University of Guelph
50 Stone Road East, Guelph ON
N1G 2W1
EMPLOYMENT OPPORTUNITIES, continued

CANADA RESEARCH CHAIR Tier 2 in INNOVATIVE MATERIALS AND BIOMATERIALS

The Faculty of Science and the Faculty of Engineering at The University of Western Ontario, one of Canada’s leading research-intensive universities, seek applicants for a Tier 2 Canada Research Chair (CRC) in Innovative Materials and Biomaterials. In accordance with the regulations set for Tier 2 Canada Research Chairs (www.chairs-chaires.gc.ca/home-accueil-eng.aspx), the candidate will be an excellent emerging researcher who has demonstrated research creativity and innovation through publication in leading peer-reviewed journals, and the potential to achieve international recognition in the field of Innovative Materials and Biomaterials. The candidate must propose an original and innovative research program of high quality, which will attract excellent undergraduate and graduate students, postdoctoral fellows and other trainees. The candidate is also expected to contribute to the teaching mission and to develop graduate and undergraduate programs in both the Department of Chemistry and the Department of Chemical and Biochemical Engineering. The successful candidate is expected to have demonstrated teaching excellence through performance measures and student evaluations.

The Tier 2 CRC will be expected to establish an independent, externally funded research program in the area of either Innovative Materials for Biomedical Devices or Innovative Materials for Energy Applications. Innovative materials for biomedical devices may involve the synthesis, characterization, and optimization of materials or biomaterials for use in or as biomedical devices. The relevant materials may include, but are not limited to, materials designed for interaction with cells, tissues, or viruses (including tissue engineered structures, implants, or body fluids); materials/biomaterials for targeted drug delivery; new materials or approaches to sensors and diagnostics. Innovative materials for energy applications may involve or be complementary to: the synthesis and characterization of materials such as nanomaterials and nanocomposites with emphasis on creation of materials and interfaces designed for energy applications (including Li/Na ion batteries, fuel cells, solar cells, or nuclear energy production and storage). It may involve the synthesis, characterization and optimization of new materials for coatings for energy infrastructure and new types of porous materials for gas storage and capture. The candidate will promote integration and synergy with existing areas of research strength and establish new collaborations between the Faculty of Science and the Faculty of Engineering in general, and the Department of Chemistry and the Department of Chemical and Biochemical Engineering in particular.

The successful applicant will hold a Ph.D. degree. Both basic Scientists and Professional Engineers are encouraged to apply. The appointment will be a Joint Probationary (tenure track) Appointment at the rank of Assistant Professor or Associate Professor depending on qualifications and experience. The Joint Appointment will be made to the Department of Chemistry in the Faculty of Science and the Department of Chemical and Biochemical Engineering in the Faculty of Engineering.

At Western, there are approximately 50 research groups participating as members of CAMBR (Centre for Advanced Materials and Biomaterials Research), coordinating research, educational and outreach activities in Materials and Biomaterials. Our researchers are supported by world-class facilities and infrastructure, including a number of multi-user facilities to support materials and biomaterials research including the Nanofabrication Facility, Surface Science Western, the Analytical, Microscopy, and Data Analysis Suites at the Biotron, the Tandetron (ion beam lab). The Department of Chemistry also has exceptional expertise in synchrotron-based research, with extensive connections to synchrotron facilities in the country and around the world for materials characterization.

Candidates should submit a curriculum vitae, one-page teaching statement, and a concise research proposal (5 pages, NSERC Discovery Grant format preferred), and contact details of at least three professionals who can provide letters of support to:

Professor Bryan Neff, Associate Dean (Research)
Office of the Dean, Faculty of Science
The University of Western Ontario
London, Ontario N6A 5B7, Canada
adsci@uwo.ca

Please ensure that the Application for Full-Time Faculty Position Form available at http://www.uwo.ca/facultyrelations/faculty/Application-FullTime-Faculty-Position-Form.pdf is completed and included in your application submission.
Limited-Term Appointments in Chemistry, Computer Science, Earth Science, or Physics

The University of Western Ontario invites applications for two full-time Limited-Term faculty appointments at the rank of Lecturer or Assistant Professor, depending on qualifications and experience, to participate in the development and delivery of a new program: Western Integrated Science (WISc). The appointments are expected to be effective July 1, 2016, or earlier. Each of the successful candidates will be appointed in one of the following departments: Chemistry, Computer Science, Earth Sciences, or Physics & Astronomy. The initial appointments will be up to five years in duration and may be renewable.

The Faculty of Science at Western is launching Western Integrated Science (WISc): a four-year undergraduate program that combines the focused coursework of a traditional honors degree with a unique set of courses in Integrated Science. Through novel classroom and laboratory experiences, WISc students will refine their critical thinking and problem-solving skills while at the same time strengthening teamwork, leadership abilities, and community engagement. WISc will also be an incubator for the development of innovative teaching and learning strategies. More information about WISc can be found at http://www.uwo.ca/sci/undergrad/future_students/wisc.html.

Each successful candidate will be appointed as a faculty member in the department within the Faculty of Science with which his or her academic background most closely aligns. The intention is that the two successful candidates will be appointed to different departments to support the interdisciplinary nature of the WISc program. Responsibilities will include teaching courses in both the WISc program and the home department, as well as developing and evaluating WISc courses, labs, and curricula. Successful candidates will also be expected to participate in service opportunities in their home department. Although these positions are not intended for applicants seeking a traditional discipline-based research-focused position, a portion of the workload may be allocated to the scholarship of teaching and learning (SoTL). Successful candidates will be expected to contribute to technology-enhanced and online learning initiatives. Hiring for these positions is subject to final program approval.

Requirements:
- PhD in Chemistry, Computer Science, Earth Science, Physics, or closely related discipline, or an MSc in one of the above-mentioned disciplines together with a Master’s in Education, and
- Experience teaching at the postsecondary level.

Assets:
- Excellence in undergraduate classroom teaching, as evidenced by, but not limited to:
  - Innovative undergraduate course, curriculum, or laboratory design and evaluation
  - Outstanding teaching evaluations
  - The effective implementation of technology in curriculum delivery
  - The use of teaching methods that enhance student engagement and learning
- Evidence of interdisciplinarity across the sciences
- Experience in providing high-impact learning experiences for undergraduate students
- Interest and/or experience in the scholarship of teaching and learning
- Training in pedagogy or teaching at the university level

Western is one of Canada’s leading research-intensive universities and offers a full range of academic and professional programs for over 32,000 undergraduate and graduate students. General information about Western can be found at www.uwo.ca.

Candidates are invited to submit a letter of interest, a curriculum vitae, and a teaching dossier that includes evidence of teaching effectiveness and a statement of teaching philosophy to the address below. Email submissions are encouraged and should be sent as a single PDF file to wisc@uwo.ca. Please also arrange to have three letters of reference sent in confidence by email or to the address below.

Dr. Felix Lee, Chair of the WISc Search Committee
Department of Chemistry
Western University
1151 Richmond St
London ON N6A 5B7
Canada

Please ensure that the form available at http://www.uwo.ca/facultyrelations/faculty/Application-FullTime-Faculty-Position-Form.pdf is completed and included in your application submission.

Applications will be accepted until the positions are filled. Review of applications will begin on January 30, 2016. We thank all applicants for their interest, but only those selected for an interview will be contacted.
Tier 1 Canada Research Chair in Surface Chemistry
Associate or Full Professor, Faculty of Science

The University of Manitoba is seeking applicants to be nominated for a Tier 1 Canada Research Chair (CRC) in Surface Chemistry in the Department of Chemistry. The Government of Canada has established the CRC program to enable Canadian universities to foster world-class research excellence. The proposed CRC aligns with the University’s strategic research plan that identifies High Performance Materials, Structures and Processes as a targeted research area (http://umanitoba.ca/research/media/Strategic_Research_Plan.pdf), and represents the third CRC committed to this theme in our current recruiting cycle. We are searching for a candidate with expertise in the development and/or use of surface science.

In accordance with the regulations set for Tier 1 Canada Research Chairs (www.chairs-chaires.gc.ca), the successful candidate will be an outstanding and innovative researcher. The candidate must have a Ph.D. and a demonstrated record of accomplishments, be recognized internationally as a leader, as evidenced by recognition in influential publications in top-tier international journals, and active membership on advisory boards, international panels and/or editorship on major journals. The candidate will have demonstrated success in attracting external funding and have an established record both at a national and international level. The candidate should also have a superior record of attracting and mentoring highly qualified personnel, as well as providing leadership in research and interdisciplinary scholarship. The successful candidate will be expected to develop and maintain a rigorous and independently funded research program that is also highly collaborative and involves local, national and international partners.

The University of Manitoba’s state-of-the-art infrastructure facilitates innovative fundamental research into complex chemical processes at a molecular level, allows the characterization of the structure and properties of natural and advanced materials, and supports research involving the chemical and morphological nature of surfaces and bulk materials, as well as provides tools for microsystems fabrication. These facilities, along with the suite of analytical tools available at the newly completed Manitoba Institute for Materials characterization facility (http://umanitoba.ca/materials/) foster networking and engagement among researchers in different disciplines and sectors. The university is also home to a Compute Canada/Westgrid node, housed in the High Performance Computing Centre, and is now the center for computational chemistry for Western Canada. Research areas of application should be compatible with existing strengths at the University of Manitoba, examples of which include advanced electronics, energy conversion and storage, environmental interfaces, microbial interactions, nanoscience, catalysis, electrochemical corrosion, coatings, polymers and surfactants. Further information can be obtained from the University of Manitoba’s research grants office. Please consult the Canada Research Chair’s website (http://www.chairs-chaires.gc.ca/home-accueil-eng.aspx#) for full program information, including details on eligibility criteria and the justification process.

The City of Winnipeg has a population of approximately 700,000 people and combines the amenities of urban life with easy access to the countryside and to northern lakes and forests. The city offers a vibrant arts community, diverse cultural events, and world-class entertainment and restaurants. An excellent public education system and a wide variety of private schools are also available. For more information about the city of Winnipeg please visit the Tourism Winnipeg and City of Winnipeg website (www.winnipeg.ca/).

Nominations or applications including a curriculum vitae, a description of the candidate’s five-year research plan, and the names and addresses of three (3) referees should be sent to Dr. Ivan Oresnik, Associate Dean Research, Faculty of Science, University of Manitoba, 247 Machray Hall, Winnipeg, Manitoba, R3T 5V6. Email: Ivan.Oresnik@umanitoba.ca (Please refer to position #20912 in the subject heading). Review of applications will begin on February 12, 2016 and will continue until the position is filled. All Chairs are subject to review and final approval by the CRC Secretariat.
Social Environmental Committee
Fundraiser for the 2016 Chemistry Golf Tournament

PEROGYFEST
JANUARY 29th 2016
Chemistry Staff Lounge E4-43
12:00 noon – 1:30 pm

$8.00  Perogies, Cabbage Rolls, & Garlic Sausage
$5.00  Plate of Perogies
$2.00  Cake & Coffee
$1.00  Pop, Water, or Coffee

In an effort to be GREEN, we will have reusable plates provided by the Office of Sustainability's Reusable Dish Program.