

**2016 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**November 28, 2016**

*For full schedule, including Center events, please see the Department Calendar:*  
<http://www.chemistry.northwestern.edu/events/calendar.html>

- Tuesday November 29<sup>th</sup>:      *Faculty Lunch Seminar: Tom O'Halloran*  
Tech K140  
12:00-1:00pm
- Wednesday November 30<sup>th</sup>:      *Special Guest Lecturer: Peter Caravan, Harvard Medical School*  
Ryan 4003  
4:00-5:00pm
- Friday December 2<sup>nd</sup>:      *Department of Chemistry Colloquium:*  
*Professor Christopher Cummins, MIT*  
Tech LR3  
4:00-5:00pm

### **BIP**

BIP meets every Friday 10-11:00am in Tech K140

### **Arrivals**

We did not have any new arrivals

### **Announcements**

#### **Medicinal & Bioorganic Chemistry Foundation Winter Conference:**

The Medicinal & Bioorganic Chemistry Foundation (MBCF) are pleased to announce our "**13th Winter Conference on Medicinal & Bioorganic Chemistry**" (13th WCMBC) will be held **January 22nd-26th 2017** in the beautiful Steamboat Springs Resort, Colorado.

The topics and speakers for the 2017 conference are now available to view - please view [PROGRAMME here](#)

If you would like to make an oral or poster presentation at this event - please e-mail [Claire Francis](#)  
**Registration is now OPEN** - you will be directed to our partners at Scientific Update to complete this process - please click here:

The MBCF also recognizes the contributions that prominent individuals have made to the advancement of medicinal and bioorganic chemistry. At each Winter Conference, an individual is honored as a keynote speaker.

The MBCF strongly encourages participation by graduate students in the Winter conferences. The Foundation will provide a limited number of awards of free registration and \$600 towards travel and board and lodging to partially offset the associated costs of attending. Graduate students from the USA or

Canada who wish to apply should submit a 1 page summary of their research accomplishments and two letters of support, one of which must be from the student's research mentor. These should be sent to [Dr Claire Francis](#). Awardees will be selected by Foundation Board members and will be invited to present their work as a poster during the conference.

### **Opportunities**

**The Department of Medicinal Chemistry at the University of Minnesota** invites applications for a tenure-track faculty position at the rank of Assistant, Associate, or Full Professor level. The Department is housed in the College of Pharmacy (CoP), which is ranked #2 in the Nation as a Top Pharmacy School and #3 in research funding amongst its peers. The position will be a twelve-month full-time appointment, with expectations in teaching (in the areas of Medicinal Chemistry & Neuroscience) and service to both the PharmD professional curriculum and also the Departmental graduate education programs. Candidates are expected to establish, maintain, and direct a major research program addressing chemical neuroscience from a medicinal chemistry/chemical biology perspective to interface with other activities within the University of Minnesota, the CoP, and the Institute for Translational Neuroscience (<https://.med.umn.edu/research/research-strengths-expertise/neuroscience/institute-translational-neuroscience>). Emphasis is placed on research in neurodegenerative disorders, epilepsy, psychiatric diseases, neuroaddiction, and neuroendocrinology, but all neuroscience sub-disciplines are encouraged to apply.

With multiple centers focused on pain, Alzheimer's, epilepsy, neuroimaging and other areas of neuroscience; and with over 1,400 faculty in basic and applied biomedical disciplines, the University of Minnesota Academic Health Center (AHC) provides a rich environment for research and collaboration. The AHC units support such interdisciplinary programs as the Institute for Translational Neuroscience, the Institute for Therapeutics Discovery and Development, the Brain Sciences Center, the Blood Brain Barriers Research Center, the N. Bud Grossman Center for Memory Research and Care, Center for Magnetic Resonance Research and Imaging, and the Center for Translational Medicine. In addition, the Minnesota Partnership for Biotechnology and Medical Genomics promotes collaborations between the University and the Mayo Clinic.

Required qualifications include: an earned doctorate (Ph.D. or equivalent) in an area related to medicinal chemistry/chemical biology/chemistry; a record of research in chemical neuroscience; publication record commensurate with rank in peer-reviewed journals; eligibility for appointment at the appropriate rank at the time of employment; and commitment to a diverse environment.

Interested candidates are strongly encouraged to apply by December 15, 2016 for the first review; however, this position will remain open until filled. For specific questions about this position, please contact the search committee chair, Dr. Carrie Haskell-Luevano, Ph.D., at [chaskell@umn.edu](mailto:chaskell@umn.edu), telephone 612-626-9262. More information about this exciting opportunity and application information may be found at: [www.pharmacy.umn.edu/employment/](http://www.pharmacy.umn.edu/employment/).

*The University of Minnesota is an equal opportunity employer and educator*

**The University of Mississippi School of Pharmacy, Department of BioMolecular Sciences** is searching for an assistant, associate or full professor of pharmacognosy for a fulltime, 12-month tenure-track/tenured position. We seek candidates with expertise in natural products sourcing, innovative use of NMR and other spectroscopic techniques, and bioactivity evaluation, with applications in particular to the four key areas of research in our School of Pharmacy, cancer, cardiometabolic disorders, neuroscience/drugs of abuse and infectious diseases.

The University of Mississippi is the flagship university for the State of Mississippi, and is a world-class public research university. The School of Pharmacy is on the main campus in Oxford, a community of

approximately 19,000 residents that has been recognized nationally as one of America's best places to live. The Chronicle of Higher Education has named The University of Mississippi as one of the "Great Colleges to Work For." The Department of BioMolecular Sciences has 14 full-time faculty with research emphases in medicinal chemistry, pharmacognosy, pharmacology, and environmental toxicology. The faculty have affiliations with the Research Institute of Pharmaceutical Sciences and collaborative opportunities in the National Center for Natural Products Research, USA's only such center. The department has teaching responsibilities in the Pharm.D. (Doctor of Pharmacy) program as well as in the M.S. and Ph.D. programs in Pharmaceutical Sciences.

### **Job Responsibilities**

The candidates should demonstrate a distinguished and innovative research program (as evidenced by a significant publication record and the potential to secure extramural funding) and a commitment to excellence in education. The successful applicant will be expected to contribute to graduate education in NMR. Applicants applying for the higher ranks should have a nationally-recognized research program with recurrent success in securing extramural funding and excellent teaching credentials.

### **Minimum Qualifications**

A Ph.D. in Pharmacognosy, Natural Products Chemistry, or a related field and postdoctoral research experience is required.

Special instructions to applicants:

Applicants should provide a cover letter outlining their qualifications for the position and also submit: a one-page executive summary of research plans; a five-page statement of future research plans; a statement of teaching philosophy; a list of teaching experience or teaching dossier; a curriculum vitae; and the names and contact information of four references. We strongly encourage applicants from all underrepresented groups.

Prior to applying for the position, prepare electronic versions of the documents to upload or to "copy and paste" when prompted. You will not have the opportunity to attach them after you apply.

Review of applications will begin on December 2, 2016 and continue until an adequate applicant pool has been reached. Applicants must meet the posted minimum qualifications for the position at the time of completing and submitting an application. Upon hire, faculty members of the University must provide official transcripts of their prior education. <https://jobs.olemiss.edu/postings/10971>

For additional information please contact, Prof. Robert Doerksen, Search Committee Chair, [rjd@olemiss.edu](mailto:rjd@olemiss.edu), 662-915-5880.

### **The University of Mississippi School of Pharmacy, Department of BioMolecular Sciences is**

searching for an assistant, associate or full professor of pharmacology/toxicology for a full-time, 12-month position currently open. We seek candidates with expertise in cardiovascular biology, cancer biology, neuroscience/drugs of abuse, or infectious diseases. The candidates should demonstrate a distinguished and innovative research program (as evidenced by a significant publication record and the potential to secure extramural funding) and teaching experience. Applicants applying for the higher ranks should have a nationally-recognized research program with recurrent success in securing extramural funding and excellent teaching credentials.

The University of Mississippi is the flagship university for the State of Mississippi, and is a Carnegie R1 research university. The School of Pharmacy is on the main campus in Oxford, a community of approximately 19,000 residents that has been recognized nationally as one of America's best places to live. The Chronicle of Higher Education has named The University of Mississippi as one of the "Great

Colleges to Work For.” The Department of BioMolecular Sciences has 14 full-time faculty with research emphases in pharmacology, environmental toxicology, medicinal chemistry, and pharmacognosy. The faculty have affiliations with the Research Institute of Pharmaceutical Sciences and collaborative opportunities in the National Center for Natural Products Research. The department has teaching responsibilities in the Pharm.D. (Doctor of Pharmacy) program as well as in the M.S. and Ph.D. programs in Pharmaceutical Sciences.

### **Job Responsibilities**

To carry out research, teaching and service within the Department of BioMolecular Sciences

### **Minimum Qualifications**

A Ph.D. in Pharmacology, physiology, toxicology or a related field and postdoctoral research experience is required.

### **Special instructions to applicants**

Applicants should provide a letter of application outlining their qualifications for the position and also submit: a curriculum vitae; a five-page or less statement of future research plans; a statement of teaching philosophy; a list of teaching experience, specialties, and competencies; and the names and contact information of four references. We strongly encourage applicants from all underrepresented groups. For additional information please contact, Prof. Zia Shariat-Madar, Search Committee Chair, [madar@olemiss.edu](mailto:madar@olemiss.edu), 662-915-5150. <https://jobs.olemiss.edu/postings/10974>

Prior to applying for the position, prepare the electronic versions of documents to upload or to “copy and paste” when prompted. You will not have the opportunity to attach them after you apply.

This position will be open until an adequate applicant pool has been reached. Review of application will begin immediately and continue until the position is filled. Applicants must meet the posted minimum qualifications for the position at the time of completing and submitting an application.

**The Surface Chemistry Group in the Materials Science Division at Argonne National Laboratory** is in search of a postdoctoral appointee. The successful candidate will enable high efficiency solar-to-fuels and solar-to-electricity conversion through precise few-atom cluster synthesis and new perovskite halide solar absorbers. The appointee will advance the basic science of precision gas-phase surface synthesis (atomic layer deposition), simple solution chemistry, and in situ and ex situ chemical and materials characterization. This will be interdisciplinary and highly collaborative work (part of an Energy Frontier Research Center) that includes surface synthesis, physical and optoelectronic characterization, and electrochemical assessment. Must have demonstrated outstanding promise as a research scientist.

Strong applicants will exhibit strong basic science understanding, motivation, and an ability to originate, carry out, and publish significant original research. Strong written and verbal skills are required. Previous experience with atomic layer deposition, inorganic chemistry, surface characterization (ellipsometry, AFM, TEM), electrochemistry, and solar energy conversion are desirable but not required. A Ph.D. in Chemistry, Materials Science, Physics, or a related field received within the last three years is required.

Interested candidates should send a detailed CV, along with a list of publications, to Alex Martinson [martinson@anl.gov](mailto:martinson@anl.gov). Argonne is a U.S. Department of Energy laboratory managed by UChicago, Argonne, LLC. Argonne is an equal opportunity employer, and we value diversity in our workforce.

**The Department of Chemistry at the University of Wyoming** invites applications for a tenure-track position in organic chemistry. Individuals from all areas of organic chemistry are encouraged to apply including polymer chemistry, energy science and chemical biology. The position will be filled at the

Assistant Professor level and candidates must hold a Ph.D. or equivalent with postdoctoral experience highly desirable. Expectations for the successful candidate will include: excellence in teaching at the undergraduate and graduate levels, nationally recognized and externally funded research program and participation in departmental and university-wide governance. Complete applications must include a detailed CV, descriptions of research plans and teaching interests, teaching philosophy, anticipated start-up costs, and three letters of recommendation.

In addition to submission of your application materials here, applicants are directed to [the University of Wyoming HR website](#) to complete their application.

Review of applications will begin Dec 9, 2016 and continue until suitable candidates are identified. The University of Wyoming invites diverse applicants to consider our employment opportunities. We are also especially interested in candidates who have experience working with diverse populations and/or diverse initiatives. <http://www.uwyo.edu/chemistry/> (307) 766-2440

**National Institute of Standards and Technology, US Department of Commerce *Post-doctoral***

**opportunity:** *Dynamics in emerging materials for advanced energy and electronic applications*

Developing new measurements to probe the dynamics of excitonic decay, charge transport, and charge transfer in evolving materials systems, including organics, 2D materials, complex oxides, etc. and at their interfaces, is vital to advance applications in electronics and optoelectronics and for renewable energy applications seeking to improve electrocatalytic performance or photovoltaic efficiency. The Energy and Sustainability group at NIST invites post-doctoral applications in this area, with a starting date of approximately June, 2017. Our recent efforts have focused on interrogating exciton and charge separation dynamics at organic donor-acceptor interfaces for organic photovoltaics (OPV) applications using time-resolved two-photon photoemission (TR-2PPE). Probing dynamics in additional novel systems applicable in advanced electronics and solar energy/fuels, including nanostructured and 2D layered materials, and in the development and application of new measurement capabilities to investigate dynamics/charge transfer with nanosecond to sub-picosecond resolution are also of interest. Complementary techniques of one-photon photoemission, inverse photoemission, and, through collaboration, scanning tunneling microscopy and spectroscopy (STM, STS), allow access to interfacial molecular structure, nanoscale phase separation, and local electronic structure. Positions are funded through the prestigious National Research Council postdoctoral fellowship program. The next application deadline for this fellowship program is Feb. 1, 2017. If interested, please follow the contact information below as soon as convenient to ensure ample time for assembling the application information by the deadline. NRC fellowships at NIST require US citizenship. *For further information, contact:* [steven.robey@nist.gov](mailto:steven.robey@nist.gov)

**The Division of Chemical Biology and Medicinal Chemistry at The University of Texas at Austin College of Pharmacy** invites applications for a full-time tenure-track faculty position at the Assistant Professor level, effective August 2017. The division (<http://sites.utexas.edu/medchem/>) is a highly interdisciplinary and interactive group engaged in cutting edge research.

The successful applicant will engage in productive interdisciplinary research, provide high-quality teaching, and actively participate in university service. The candidate will be expected to establish a vigorous and externally funded research program focusing on chemical and molecular mechanisms of high biomedical significance. All highly qualified candidates will be considered, but those with research interests related to cancer or infectious diseases will be viewed more favorably. Teaching in the professional (Pharm.D.) program and development of graduate courses in the area of research expertise are expected. The position carries a highly competitive salary, benefits, and start-up package.

## Qualifications

Ph.D. in a relevant field.

## Application Instructions

Applicants should submit a cover letter, curriculum vitae, research plan, and a list of 3 references.

Applications received before December 1, 2016 will receive first consideration, but applications will be accepted until the position is filled. <https://apply.interfolio.com/36240>

**The School of Engineering (STI) of EPFL** invites applications for a tenure-track assistant professor position in inorganic materials within the Institute of Materials. We seek exceptional individuals who will develop and drive a research program at the forefront of the discipline, who have a strong dedication to teaching at the undergraduate and graduate levels, and who will be proactive members of a vibrant Materials community.

Top-level applications are invited in all areas related to the design, synthesis, processing and characterization of functional inorganic materials including, but not limited to: materials for energy harvesting, conversion or storage; novel semiconductors; electronic, catalysis or photonic materials as well as materials for information technology or devices.

As a faculty member of the School of Engineering, the successful candidate will be expected to initiate an independent and creative research program and participate in undergraduate and graduate teaching. Internationally competitive salaries, start-up resources and benefits are offered.

EPFL, with its main campus located in Lausanne, Switzerland, is a dynamically growing and well funded institution fostering excellence and diversity. It has a highly international campus at an exceptionally attractive location boasting first-class infrastructure. As a technical university covering essentially the entire palette of engineering and science, EPFL offers a fertile environment for research cooperation between different disciplines. The EPFL environment is multi-lingual and multi-cultural, with English often serving as a common interface.

Applications should include a cover letter with a statement of motivation, curriculum vitae, list of publications and patents, concise statement of research and teaching interests, and the names and addresses of at least five referees. Applications must be uploaded in PDF format to the recruitment web site: [www.go.epfl.ch/imx-search](http://www.go.epfl.ch/imx-search)

Formal evaluation of candidates will begin on December 1st, 2016 and continue until the position is filled.

Enquiries may be addressed to:

Prof. Harm-Anton Klok; Search Committee Chair; E-mail: [imx-search@epfl.ch](mailto:imx-search@epfl.ch)

For additional information on EPFL, please consult the web site: [www.epfl.ch](http://www.epfl.ch)

*EPFL is committed to increasing the diversity of its faculty, and strongly encourages women to apply.*