

2016 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
February 29, 2016

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

Tuesday March 1st: *Faculty Lunch Seminar: Milan Mrksich*
Tech K140
12:00-1:00pm

BIP

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

Arrivals

We did not have any new arrivals last week

Announcements

Max Delferro will be leaving Northwestern. From Max, “*After almost 7 years at NU is time for me to leave. My new position at Argonne is as Group Leader of the Catalysis Science Program at the Chemical Science & Engineering Division.*” Max’s last day will be Friday March 4th. We wish all the best in his new position.

The 8th Yao Yuan Biotech-Pharma Symposium April 23, 2016 - Emerging Therapeutics: A Fundamental Driver of Pharma’s Future Growth; University of Illinois at Chicago, College of Pharmacy Auditorium

Despite the high cost and low probability of success associated with drug discovery and development, we are at a time that new drugs with improved profiles and new mechanisms of action are still emerging. As a result of better understanding fundamental biology, rigorous academic and industrial research, and fruitful collaborations, scientists are discovering break-through therapies for hard-to-treat diseases and greatly benefitting patients. In this forum, case studies on early discovery research and clinical development of compounds that are on or at the brink of being brought to the market will be presented. Progress in the exciting field of oncology (e.g., CAR-T cells, IDO and BCL-2 inhibitors), which is at the tipping point of producing revolutionary therapies, will also be discussed.

Time: April 23, 2016

Venue: University of Illinois at Chicago, College of Pharmacy Auditorium

Address: 833 S Wood St, Chicago, IL 60612

Confirmed Speakers:

Dr. Samuel Blackman, Senior Medical Director, Juno Therapeutics

Dr. Andrew P. Combs, Vice President, Incyte Corporation

Dr. Michael E. Jung, Distinguished Professor, UCLA

Dr. Dennis C. Liotta, Samuel Candler Dobbs Professor, and Executive Director Emory Institute for Drug Development, Emory University

Dr. Andrew Souers, Senior Research Fellow & Project Director, AbbVie, Inc.

Student Poster Award and Presentations

Panel Discussion: What Skills and Experience Are Pharma Looking For?

Sponsor's Exhibitions

Chaired by:

Dr. Xueqing Wang, Sr. Group Leader, Discovery Chemistry and Technology, AbbVie, Inc.

Dr. Hyunwoo Lee, Assistant Professor, Department of Biopharmaceutical Sciences, University of Illinois at Chicago

Dr. Alexander Mankin, Professor and Director, Center for Pharmaceutical Biotechnology, University of Illinois at Chicago

[To Register for the 8th Yao Yuan Biotech-Pharma Symposium](#)

Calling all Chemists interested in Law, Business, and Technology!

The one-year [Master of Science in Law \(MSL\)](#) program at Northwestern Pritzker School of Law prepares students for careers at the intersection of law, business, and technology. Designed especially for students with engineering, science, technology, mathematics, and medical backgrounds, the MSL provides practical, focused, business-centered legal training that enables students to communicate across disciplines; develop, protect, and manage intellectual property; bring ideas to market; and navigate the legal and regulatory structures that exist in STEM settings. MSL graduates are well positioned for careers as: patent agents; IP/patent portfolio managers; scientific and/or technical consultants; business developers; regulatory strategists; compliance officers; patent coordinators; entrepreneurs; and more. Scholarships are available.

Learn more by joining us for our upcoming webinar. We will provide a comprehensive overview of the MSL program, including curriculum, full-time and part-time scheduling, career opportunities, and more. We will also take questions from the audience.

- March 9 at 5pm
- April 7 at 4pm
- Join online: <https://northwesternuniversity.adobeconnect.com/mslwebinar>

Anyone interested in the Master of Science in Law program is welcome to contact Susan Dennehy, Administrative Director, at susan.dennehy@law.northwestern.edu.

LabVIEW Boot Camp at Northwestern

If you are new to LabVIEW or looking to improve your skills, this free hands-on course introduces you to graphical programming with LabVIEW system design software. Learn how to develop data acquisition, instrument control, data logging, and measurement analysis applications. Benefit from an opportunity to take the Certified LabVIEW Associate Developer (CLAD) exam, a globally recognized entry-level certification exam, for free.

Cost: Free (a \$3,200 USD value)

You will:

- Learn the essentials you need to successfully build an application requiring measurement or control
- Explore the LabVIEW environment, dataflow programming, and common LabVIEW techniques to jump-start application development or improve your existing applications
- Create applications using the state machine design pattern to acquire, process, display, and store real-world data

- Gain an overview of key concepts and preparation materials for the CLAD exam

Registration information:

Northwestern University

Technological Institute

IMSERC Computer Lab, Room B190

March 21 - March 24

9:00 a.m.–5:00 p.m.

Must attend all days to take the exam

Registration

link: <http://sine.ni.com/nievents/app/offering/p/offeringId/2365398/site/nic/country/us/lang/en>

Opportunities

The Department of Chemistry & Biochemistry in the College of Science and Engineering (COSE) at St. Cloud State University has an opening for a full-time, tenure-track Assistant/Associate Professor of Biochemistry. The program has 13 full-time faculty positions and offers an American Chemical Society approved program. The department is well equipped with major instrumentation and research facilities, including cell and molecular biology accommodations housed in the new Integrated Science and Engineering Laboratory Facility (ISELF). More information about the College, the Department, and ISELF can be found at <http://www.stcloudstate.edu/cose/>, <http://www.stcloudstate.edu/chemistry/>, and <http://www.stcloudstate.edu/iself/>.

Responsibilities:

Primary duties include teaching introductory and advanced courses in biochemistry, and introductory chemistry courses. Successful candidates will be expected to engage in an environment of innovation and collaboration that is focused on students, including undergraduate student research and academic advising. In order to be considered for tenure and promotion, the successful candidate will demonstrate the ability to: teach effectively and/or perform effectively in other assignments, produce a record scholarly or creative achievement or research, participate in continuing preparation and study, contribute to student growth and development, and provide service to the university and community (IFO Article 22, Section B).

Qualifications:

Required:

Ph.D. in biochemistry, chemistry, or a related field is required at the time of appointment.

Evidence of the ability to work with persons from culturally diverse backgrounds.

Preferred:

Teaching experience in general chemistry and biochemistry and/or post-graduate experience in biochemistry/molecular biology is desirable.

Supplemental Information:

Founded in 1869, St. Cloud State is an award-winning regional public university and proud member of the Minnesota State Universities & Colleges system. The 100-acre campus is about an hour northwest of Minneapolis and St. Paul, along the oak-crowned west bank of the Mississippi River. St. Cloud State students prepare for life, work and citizenship by exploring the world around them and making it better. St. Cloud State employees value active and applied learning, community engagement, sustainability, and global and cultural understanding. These commitments complement more than 200 majors, minors and pre-professional programs, 60 graduate programs and 250 student clubs and organizations. St. Cloud State began as a normal school in 1869 and became St. Cloud State Teachers College in 1921. Bachelor's degrees were first offered in 1925. Master's degrees debuted in 1957. In 1975, the institution became St.

Cloud State University. In recent years, the University added applied doctoral programs in Higher Education Administration and Educational Administration and Leadership. A diverse mix of students from Midwestern towns and U.S. metropolitan areas are learning alongside more than 1,000 international students from about 80 nations.

Additional information on St. Cloud State University can be found at: <http://www.stcloudstate.edu>

To apply for this position use the website:

<http://agency.governmentjobs.com/stcloudstate/default.cfm> (click "Apply" within this posting to complete application)

The completed application must include:

- Cover letter
- Curriculum vitae/resume
- Contact information for three (3) current, professional references
- Copies of transcripts (undergraduate/graduate)
- Description of proposed research involving undergraduate students
- Statement of teaching philosophy

Contact Information

E-mail: biochemistrysearch@stcloudstate.edu

For best consideration, please apply by March 2, 2016; position is open until filled. Materials received after this date cannot be guaranteed consideration. All finalists will be required to give a seminar on their research and teach an undergraduate-level course during the interview process. Official transcripts will be required from the finalists at the time of interview.

*Employment for this position is covered by the collective bargaining agreement for the Inter Faculty Organization, which can be found at:

http://www.hr.mnscu.edu/contract_plans/index.html

One Heart Source is currently accepting applications for our 2016 Experiential Learning Programs. We are offering 2 week Health Innovation programs in South Africa!

As an OHS Volunteer you will:

- Gain international experience on the ground in global health initiatives.
- Mentor students who strive to become healthcare professionals and cultivate lifelong relationships.
- Immerse yourself in diversity through service and excursions.
- Collaborate with groups of university students from around the world.
- Develop leadership and entrepreneurial skills through the pursuit of social justice.
- Broaden health care skills in real-world environments

Apply here for our Volunteer Programs: [2016 Application](#)

Application Deadline: March 1, 2016

Learn more about our Health [Program](#) here. www.oneheartsource.org

The Clowes Department of Chemistry at Butler University invites applications for a one year instructor position in chemistry beginning in August 2016. The primary job responsibilities will involve teaching general chemistry courses and non-majors chemistry courses.

Additional information about Butler University may be found at <https://www.butler.edu/>. Consideration will begin immediately and will continue until the position is filled.

The successful candidate should have a Ph.D. in chemistry, but ABD may be considered.

Candidates should submit the following to CHsearch@butler.edu

- CV
- Statement of teaching philosophy
- Graduate Transcripts and
- Three (3) letters of recommendation

The University of Liverpool is seeking to recruit to up to 10 academic positions in the Faculty of Science and Engineering in the broad area of materials research, distributed across the School of Physical Sciences (Chemistry, Physics & Mathematics), School of Engineering, the School of Electrical, Electronic Engineering and Computer Science, and the School of Environmental Sciences across the areas of Chemistry, Physics, Materials Science, Engineering, Computer Science. You should have an outstanding research track record, as demonstrated by publications and other relevant outputs.

Applications will be considered from any area of materials research, but would be particularly welcomed in the areas of computational materials chemistry, polymer physics, rheology, robotics and/or automated metrology, biomaterials, materials processing and related areas. The posts will be aligned with the Materials Innovation Factory (MIF), a major new £68m research institute that is being established at the University. For the Chair or Readership positions you will be expected to demonstrate a significant track record of funding and a capacity for leadership in your field.

The University is an Athena SWAN Bronze Award holder and is committed to encouraging, developing and supporting women in their research and academic careers. We are working to create an inclusive environment which values a diverse workforce and we recognise that many individuals value flexibility in their work/life balance, therefore these posts may be taken up on a part-time (a minimum of 0.5fte) or full-time basis (including a job share).

<https://www.liverpool.ac.uk/working/jobvacancies/currentvacancies/professorial/a-590406/>

The Department of Chemistry at Smith College has initiated a search for a non-tenure-track, full-time visiting Assistant Professor of Chemistry position to begin July 2016. This position is an initial one-year appointment with an additional re-appointment possible, conditional on performance and the needs of the College. Depending on the candidate's field of specialization, primary teaching responsibilities will include a total of five courses per year in areas suited to the candidate's expertise. The department offers courses in General, Organic, Inorganic and Physical chemistry, as well as Biochemistry and Environmental Chemistry. All members of the Chemistry Department participate in teaching and we seek a colleague committed to learning, developing, and maintaining a dynamic curriculum that is responsive to the needs of Smith's diverse and talented student body. Applicants must have a Ph. D. in chemistry and a commitment to excellence in teaching; post-doctoral experience is not required but preferred.

We believe this is an outstanding opportunity for any Ph.D. graduate/ Post-doctoral associate who would want to get real academic experience at a top liberal-arts institution. Smith College is a member of the Five College Consortium with Amherst, Hampshire, and Mount Holyoke Colleges, and the University of Massachusetts. <http://www.smith.edu/deanoffaculty/facultypositions.html#CHM>

The Department of Chemistry at North Carolina State University is seeking to fill TWO tenure track faculty positions in the area of Analytical Chemistry. Of particular interest are those individuals developing innovative and sophisticated programs in measurement science to quantitatively characterize

complex chemical and biological systems. These are open rank searches; however, preference will be given to candidates at the junior level whose research interests will complement existing programs in the Department, College of Sciences, and University.

Successful candidates are expected to establish a nationally and internationally recognized research program and to demonstrate strong interests and abilities in teaching at both the undergraduate and graduate levels. Candidates must possess a PhD and post-doctoral experience in Chemistry or a related scientific field to be considered for this position. Candidates should submit electronic copies of their curriculum vitae, research proposals, and a cover letter at: <http://jobs.ncsu.edu> under position number 00105377. The candidates should also arrange to have three letters of recommendation sent on their behalf to Professor David C. Muddiman, Chair of the Search Committee. Review of applicant materials will begin on March 15, 2016 and will continue until the positions are filled. We welcome the opportunity to work with candidates to identify suitable employment opportunities for spouses or partners. AA/EOE. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran. Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148 .

The Department of Biomedical and Pharmaceutical Sciences in the College of Pharmacy at The University of Rhode Island invites applications for a full-time tenure-track, Assistant Professor of Pharmaceutics position. This is a joint appointment with the Department of Chemical Engineering. Anticipated start date is July 2016. The successful candidate is expected to establish an extramurally funded research program in pharmaceutical formulation, drug delivery or dosage form design, contribute to teaching in the Doctor of Pharmacy, B.S. in Pharmaceutical Sciences, and graduate programs. In addition the candidate is expected to and participate serve on departmental, college, university and extramural committees.

Visit the URI jobs website at: <https://jobs.uri.edu> to apply and view the complete details of the job posting (#SF00220). Please attach 4 (PDF) documents to your online Faculty Profile Application: (#1) Cover letter, (#2) Curriculum Vitae which include the names and contact information of three professional referees, (#3) "Other Document" which combines the following as one complete document: a concise description of research accomplishments and future research plans, (#4) Statement of teaching experience and interests (as one complete document). APPLICATION DEADLINE: The search will remain open until the position is filled. First consideration will be given to applications received by March 15, 2016. Second consideration may be given to applications received by April 15, 2016. Applications received subsequent to the second consideration date (April 15, 2016) may not be given full consideration.

APPLICATIONS MUST BE SUBMITTED ONLINE ONLY. The University of Rhode Island is an AA/EEOD employer. Women, persons of color, protected veterans, individuals with disabilities, and members of other protected groups are encouraged to apply.

The Department of Biomedical and Pharmaceutical Sciences in the College of Pharmacy at The University of Rhode Island invites applications for a full-time tenure-track, Assistant/Associate Professor of Pharmaceutics position. Anticipated start date is July 2016. The successful candidate is expected to establish an extramurally funded research program in pharmaceutical formulation, drug delivery or dosage form design, contribute to teaching in the Doctor of Pharmacy, B.S. in Pharmaceutical Sciences, and graduate programs and participate in service activities.

Visit the URI jobs website at: <https://jobs.uri.edu> to apply and view complete details for job posting (#SF00221). Please attach 4 (PDF) documents to your online Faculty Profile Application: (#1) Cover

letter, (#2) Curriculum Vitae which include the names and contact information of three professional referees, (#3) "Other Document" which combines the following as one complete document: a concise description of research accomplishments and future research plans, (#4) Statement of Teaching experience and interests (as one complete document).

APPLICATION DEADLINE: The search will remain open until the position is filled. First consideration will be given to applications received by March 15, 2016. Second consideration may be given to applications received by April 15, 2016. Applications received subsequent to the second consideration date (April 15, 2016) may not be given full consideration. **APPLICATIONS MUST BE SUBMITTED ONLINE ONLY.** The University of Rhode Island is an AA/EEOD employer. Women, persons of color, protected veterans, individuals with disabilities, and members of other protected groups are encouraged to apply.

Lamar University invites applications for a tenure-track faculty position in Analytical/Forensic Chemistry. The position is available in fall 2016 pending final funding. Salary is negotiable based upon qualifications and experiences. The position will be at the rank of assistant professor. The review of applications will begin immediately and continue until the position is filled.

Applicants with expertise in forensic, instrumentation, or related field of analytical chemistry, are encouraged to apply. With a recently completed \$7 million renovation to our facilities, an investment of \$1.5 million in instrumentation, and a growing graduate program, we are seeking a motivated teacher and researcher with an earned doctoral degree.

Qualifications:

Doctoral Degree. Candidates are expected to have a strong potential for creative, independent research and demonstrate a commitment to education at all levels.

A Member of the Texas State University System, Lamar University is an equal opportunity/ affirmative action employer that actively seeks and encourages applications and expressions of interest from members of traditionally under-represented groups in higher education.

Applicants must apply online at <https://jobs.lamar.edu> by completing the online application and attaching a complete vitae, a statement of teaching interests and experience, research plans (including undergraduate participation but not to exceed five pages), and a list of at least three professional references.

Lamar University invites applications for a tenure-track faculty position in Environmental Chemistry. The position is available in fall 2016 pending final funding. Salary is negotiable based upon qualifications and experiences. The position will be at the rank of assistant professor. The review of applications will begin immediately and continue until the position is filled.

Applicants with expertise in environmental, terrestrial or atmospheric chemistry, biochemistry, or related field of chemistry, are encouraged to apply.

With a recently completed \$7 million renovation to our facilities, an investment of \$1.5 million in instrumentation, and a growing graduate program, we are seeking a motivated teacher and researcher with an earned doctoral degree.

Minimum Qualifications

Qualifications:

Doctoral Degree. Candidates are expected to have a strong potential for creative, independent research and demonstrate a commitment to education at all levels.

A Member of the Texas State University System, Lamar University is an equal opportunity/ affirmative action employer that actively seeks and encourages applications and expressions of interest from members of traditionally under-represented groups in higher education.

Applicants must apply online at <https://jobs.lamar.edu> by completing the online application and attaching a complete vitae, a statement of teaching interests and experience, research plans (including undergraduate participation but not to exceed five pages), and a list of at least three professional references.

The Advanced Photon Source (APS) at the U.S. Department of Energy's Argonne National Laboratory provides ultra-bright, high-energy storage ring-generated x-ray beams for research in almost all scientific disciplines. The X-Ray Science Division (XSD) enables world-class research using x-rays by developing cutting edge x-ray instrumentation and techniques; pursues research in the physical, chemical, environmental, and materials sciences.

XSD invites you to apply for a Postdoctoral Appointee position to develop in-situ/operando, time-resolved X-ray spectroscopy and diffraction techniques on surfaces and solid/liquid interfaces. Research will be focused on tracking electronic and structural evolutions in photochemical and electrochemical processes initiated by ultrafast laser or electrical pulses.

Position Requirements

We expect you should have:

- Knowledge of time-resolved physical chemistry is required.
- Working experience with ultrafast lasers or experience on synchrotron X-ray experiment is desired.
- The level of scientific sophistication required is that normally associated with a PhD.

For more information or to apply please visit: <http://www.anl.gov/careers/apply-job/postdoctoral-applicants>

The Department of Chemistry at Kalamazoo College invites applications for a full-time Visiting Assistant Professor position for one year—September 2016 through June 2017. The successful applicant will contribute to teaching in Organic Chemistry. A Ph.D. in chemistry or the equivalent is required (or evidence of imminent completion). Prior teaching experience is desirable. Candidates must demonstrate an interest in undergraduate teaching. The Departmental website can be viewed at: <http://www.kzoo.edu/chem>.

Kalamazoo College is a highly selective, nationally known liberal arts college of approximately 1450 motivated students, offering an integrated undergraduate experience that weaves a traditional liberal arts curriculum into domestic and international educational experiences (www.kzoo.edu). Approximately 10% of students major in Chemistry. Graduates of the Chemistry Department pursue studies in the health care field, graduate-level work in the discipline, or move directly into industrial positions. The campus is located midway between Chicago and Detroit, and the Kalamazoo area encompasses a community of 225,000, which supports several college and university campuses along with numerous civic arts and cultural associations. Thirty-five miles from Lake Michigan, the area offers many opportunities for outdoor activities.

Review of applications will begin immediately and will continue until the position is filled. A cover letter, curriculum vitae, statement of teaching philosophy, undergraduate and graduate transcripts (unofficial is acceptable), and three letters of recommendation addressed to Laura Lowe Furge, Chair, Department of

Chemistry, Kalamazoo College, 1200 Academy Street, Kalamazoo, MI 49006-3295, should be submitted electronically in pdf format to the administrative assistant, Lauryn Kindle at Lauryn.Kindle@kzoo.edu .

Kalamazoo College encourages candidates who will contribute to the cultural diversity of the College to apply and to identify themselves if they wish. Equal Opportunity Employer

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at [participating federal laboratories and affiliated institutions](#). These awards include generous stipends ranging from \$42,000 - \$80,000 per year for recent Ph.D. recipients, and higher for additional experience. [Graduate](#) entry level stipends begin at \$30,000. These awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals.

Detailed program information, including online applications, instructions on [how to apply](#) and a [list of participating laboratories](#), is available on the NRC Research Associateship Programs [Website](#) (see link above).

Questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu. There are four annual review cycles.

Review Cycle: **February**; Opens December 1; Closes February 1

Review Cycle: **May**; Opens March 1; Closes May 1

Review Cycle: **August**; Opens June 1; Closes August 1

Review Cycle: **November**; Opens September 1; Closes November 1

Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities. More detailed information and an online application can be found at www.nationalacademies.org/rap.