

**2016 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**February 15, 2016**

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

Tuesday February 16<sup>th</sup>:            *Faculty Lunch Seminar: Chad Mirkin*  
Tech K140  
12:00 – 1:00pm

Friday February 19<sup>th</sup>:            *Department of Chemistry Seminar:*  
*Hans Lischka, Tianjin University*  
Ryan Hall 4003  
11:00am – 12:00pm

*Department of Chemistry Colloquium:*  
*George Christou, University of Florida*  
Tech LR3  
4:00 – 5:00pm

**BIP**

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

**Arrivals**

We did not have any new arrivals last week

**Announcements**

Dr. Peggy Schott of Northwestern will be the featured speaker at the February 20 meeting of the Chicago Section of the American Chemical Society, held at Zhivago's in Skokie. Her talk is entitled "Elemental Sulfur: A Natural (and Unnatural) Resource". Abstract, registration, and other details are available on the Chicago ACS website: <http://chicagoacs.org/meetinginfo.php?id=106>

Students and postdocs may register for dinner at a significantly discounted rate. Chicago ACS meetings offer great opportunities to meet a variety of different chemistry professionals employed in industry and academia from all over Chicagoland. Registration deadline is Monday, Feb 15. Please contact the Chicago ACS office with questions: [chicagoacs@ameritech.net](mailto:chicagoacs@ameritech.net), 847-391-9091.

**Opportunities**

**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

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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 Department of Chemistry at the University of California, Irvine** invites applications for a Lecturer position with potential security of employment. This position parallels the tenure track research faculty series and will involve both administration of upper-division laboratory courses in analytical and physical chemistry and teaching undergraduate lecture courses in general and physical chemistry. The Lecturer with Security of Employment series requires, in addition to excellent teaching and service, that the candidate makes outstanding and recognized contributions to the development of his or her specific discipline and/or of pedagogy. We seek outstanding Ph.D.s, with a strong commitment to undergraduate chemistry education, to develop high-quality educational experiences in both laboratory and lecture settings. Grant-writing in support of the acquisition of modern instrumentation and other innovative instructional initiatives will be an important component of this position.

Successful candidates will have demonstrated excellence in the communication of scientific concepts, competitive grant writing, and scholarly publications. Applications should be submitted electronically, and should include a cover letter, curriculum vitae, a list of publications, and a description of the applicant's university-level teaching background and philosophy. A separate statement that addresses past and/or potential contributions to diversity, equity and inclusion is also required. Additionally, applicants should arrange to have three letters of recommendation submitted on their behalf.

Application instructions can be found at <https://recruit.ap.uci.edu/apply/JPF03182> . Review of applications will begin February 15, 2016. To ensure full consideration, applications and all supporting materials should be received by this time. The position will remain open until filled. Information about the department can be found at <http://www.chem.uci.edu> or you may contact the Chemistry Lecturer Search Committee, Department of Chemistry, 1102 Natural Sciences II, University of California, Irvine, Irvine, CA 92697-2025; e-mail: [sltibbet@uci.edu](mailto:sltibbet@uci.edu) .

The University of California, Irvine is an Equal Opportunity/Affirmative Action Employer advancing inclusive excellence. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, protected veteran status, or other protected categories covered by the UC nondiscrimination policy.

**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 the University of California, Irvine** is searching for a postdoctoral fellow. The candidate should be highly motivated, creative, and independent, with strong synthetic skills. Experience with electrochemistry is a plus. The project will likely require the development and evaluation of new experimental apparatuses and may involve collaborations with other groups. A start date in the Spring or Summer would be ideal, but the Fall would work as well. The position is funded for 2 years by the Camille and Henry Dreyfus Foundation. As a result, the candidate can be offered a salary of \$48,000 a year and additional funds for travel.

Interested students should send their CV to Jenny Y. Yang, Assistant Professor, Department of Chemistry at [j.yang@uci.edu](mailto:j.yang@uci.edu).

**The Department of Chemistry and Biochemistry at Washington and Lee University** seeks to fill a full-time Visiting Position to teach Organic Chemistry and the associated lab. The position is for one year and is renewable for a second year upon satisfactory performance. The position starts in August 2016 and requires a Ph.D. in Chemistry and relevant teaching experience. Summer research opportunities are available. Review of applications will begin immediately and continue until the position is filled. W&L is a highly selective, independent, co-educational, liberal arts college of 1800 students located in Lexington, VA, three hours southwest of Washington, DC. W&L is an equal opportunity employer. Applicants should send a CV, a letter of application, a one page statement of teaching philosophy, unofficial graduate and undergraduate transcripts, and three letters of reference to: Lisa Alty, [Chemistry@wlu.edu](mailto:Chemistry@wlu.edu).

**The University of California Riverside** is embarking on a major new hiring initiative that will add 300 tenure-track positions in 33 cross-disciplinary areas selected through a peer-reviewed competition. Over the next three years, we will hire multiple faculty members in each area and invest in research

infrastructure to support their work. This initiative will build critical mass in vital and emerging fields of scholarship, foster truly cross-disciplinary work and further diversify the faculty at one of America's most diverse research universities. We encourage applications from scholars committed to excellence and seeking to help redefine the research university for the next generation. For more information about UCR's hiring initiative please go to <http://clusterhiring.ucr.edu>

This announcement aims to fill an appointment in the area of Genome Stability and Human Health at the senior level. This is the first of four cluster hires in this area, with the successful senior candidate expected to help lead the three subsequent searches in this area at the junior level. The placement of the senior level candidate may be in the College of Natural and Agricultural Sciences or in the School of Medicine, depending on the preferences of the candidate and the host departments. The candidate must have a demonstrated record of success, team building, and leadership in the area of genome stability and human health and have a doctorate in a relevant field (such as Biochemistry, Chemistry, Molecular Biology, Genetics, Genomics) and be strongly committed to both undergraduate and graduate teaching. We are particularly interested in those whose research seeks to address relationships between genome stability and neurodegenerative diseases, cancer, ageing or diseases of the immune system. Preference will be given to applicants whose research interests complement those of existing faculty within the College of Natural and Agricultural Sciences or the School of Medicine and those in our interdepartmental graduate programs in Genetics, Genomics and Bioinformatics, Cell, Molecular and Developmental Biology, Neuroscience, Environmental Toxicology and Biochemistry and Molecular Biology, and strengthen our initiative to develop an extramurally funded research center in environmental health and toxicology. Preference also will be given to applicants who have the potential or demonstrated ability to successfully work with and benefit a diverse student body.

Applications should include a full *curriculum vitae*, cover letter, a description of proposed research, teaching philosophy and provide five names and contact details for confidential references. A statement addressing potential contribution to academic diversity must be included. Applicants should apply through <http://aprecruit.ucr.edu/apply/JPF00528> in Genome Stability and Human Health. For full consideration applications should be received by February 28, 2016. Applications will be accepted until the positions are filled. Anticipated start date is June 30, 2016. Salary is commensurate with education and experience.

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification. Advancement through the faculty ranks at the University of California is through a series of structured, merit based evaluations, occurring every 2-3 years, each of which includes substantial peer input.

The University of California is an Equal Opportunity / Affirmative Action Employer with a strong institutional commitment to the achievement of excellence and diversity among its faculty and staff. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

For more information about the position, please contact Dr. Peter Atkinson at [peter.atkinson@ucr.edu](mailto:peter.atkinson@ucr.edu). For questions on application procedures and requirements, please contact Margi Burnett at [margi.burnett@ucr.edu](mailto:margi.burnett@ucr.edu).

**Gustavus Adolphus College** invites applications for two full-time one-year positions of Visiting Assistant Professor in the Department of Chemistry to begin September 1, 2016.

**Minimum Required Qualifications:** We seek candidates who have an earned doctorate, but will consider candidates who have achieved ABD status. Candidates must have demonstrated excellence in teaching. A commitment to undergraduate teaching is essential; in their application candidates should discuss their commitment to teaching a student-centered undergraduate chemistry curriculum in a liberal arts environment.

**Preferred Qualifications:** We are interested in applicants who will complement our commitment to students and faculty from diverse cultural groups, and who will diversify the expertise and experiences represented in the department.

**Major/Essential Functions:**

**Biochemistry Position:** The teaching load will be seven course equivalents. Primary teaching responsibilities will include biochemistry lecture and labs (200-level) and contributions to general education, including teaching during our interim January term (a one-month short course) as determined by the candidate and appropriate to the candidate's expertise and interests. The department anticipates a continued vacancy in this area, and the successful candidate may be considered for continuation into the 2017-18 academic year, contingent upon favorable review and the continuing needs of the College. Biochemistry at Gustavus is an interdisciplinary program with direct ties to both the Departments of Biology and Chemistry.

**Organic Position:** The teaching load will be seven course equivalents. Primary teaching responsibilities will include Organic II lecture and labs (200-level), Organic I lecture and labs (100-level), and contributions to general education, including teaching during our interim January term (a one-month short course) as determined by the candidate and appropriate to the candidate's expertise and interests.

**Application and Institution Information:** Electronic application is required; email application materials as separate PDFs to [chem-search@gustavus.edu](mailto:chem-search@gustavus.edu) (NOTE: Please indicate in the email subject line which position you are applying for). The application materials must include a letter of application, curriculum vitae, statements of teaching philosophy and research interests, undergraduate and graduate transcripts (scanned copies acceptable), and three confidential letters of professional recommendation (sent directly from the reference or letter service). The cover letter and letters of recommendation should be addressed to:

Department of Chemistry  
Gustavus Adolphus College  
800 W College Ave  
Saint Peter, MN 56082-1498

Application information is also available at [www.gustavus.edu/jobs](http://www.gustavus.edu/jobs). For more details, visit the College's website at [www.gustavus.edu/provost/newfaculty/](http://www.gustavus.edu/provost/newfaculty/) or email [chem-search@gustavus.edu](mailto:chem-search@gustavus.edu). Review of applications will begin on February 22, 2016, and continue until the position is filled.

The Gustavus Department of Chemistry graduates approximately 30 chemistry and biochemistry/molecular biology majors each year. The Department prepares students for continuing education in post-graduate professional programs in chemistry, environmental or health-related fields. Students are engaged in research experiences both within and outside of classes.

Gustavus Adolphus College is a coeducational, private, Lutheran (ELCA), residential, national liberal arts college of 2400 students. The College maintains a longstanding commitment to excellence through diversity with a special emphasis on global engagement and service. Additionally, we strive to be a community supportive of all kinds of individuals and families. As an Affirmative Action employer, it is the policy and practice of Gustavus Adolphus College to provide equal employment opportunities for all. EOE Employer/Disabled/Vet

**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](http://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](mailto: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](mailto: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](http://www.nationalacademies.org/rap).