

2017 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
October 23, 2017

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

Tuesday October 24th: *Faculty Lunch Seminar: SonBinh Nguyen*
Tech K140
12:00-1:00pm

Friday October 27th: *Department of Chemistry Colloquium: 2017 Basolo Medalist*
Anthony K. Cheetham, University of Cambridge
Tech LR3
4:30-5:30pm

Announcements

The annual Chemistry Halloween Show will haunt Tech LR3 on Friday, October 27.

Chemistry's own legendary pyrotechnician, Eberhard Zwergel, will fill you with fright and delight as he casts his fiery spells.

Available showtimes are 9:00am and 1:00pm. Each show is approximately 50 minutes.

Admission is free but you must be on our ghost..err..guest list to enter. Please complete this [Google Form](#) to request addition to our list. Space is limited, so please reserve your spot in advance...OR ELSE...

Costumes strongly encouraged!

Special Note: All ages welcome but the noise and commotion may be overwhelming for very small children.

You must complete the above Google Form to request tickets. If you have any other questions please send an e-mail to chemhelp@northwestern.edu

BIP

BIP meets every Friday in Tech K140 at 10:00am

Arrivals

Zhu Chen joined the VanDuyne Group

Opportunities

The Department of Chemistry at Colorado State University, located in Fort Collins, CO, seeks to hire at least one tenure-track faculty member. While exceptional candidates from all areas of chemical science are encouraged to apply, those with research interests in analytical and/or experimental physical chemistry are of particular interest. Exceptional candidates will be able to contribute to current research

strengths in chemical biology, environmental chemistry, and materials chemistry. We aim to fill this position at the Assistant Professor level, but will consider exceptional candidates at the Associate Professor rank. Candidates must hold a Ph.D. or equivalent degree and be capable of outstanding teaching, scholarship, and research. Postdoctoral experience is highly desirable. Complete applications must include a detailed CV, descriptions of research plans and teaching interests, and the names of at least three references.

For more information or to apply see <http://jobs.colostate.edu/postings/50249>. Questions regarding the searches should be directed to Chair, Faculty Search Committee, CHEM_search@mail.colostate.edu. Applications will be accepted until the positions are filled; applications completed by 11:59 PM (MT) on November 10th, 2017 will receive full consideration. Files of semifinalists (including reference letters) will be available to all Chemistry Department regular faculty. CSU is an EO/EA/AA employer. Colorado State University conducts background checks on all final candidates.

The Department of Chemistry at the University of Wyoming invites applications for an extended term Academic Professional Lecturer (APL) in organic chemistry. The successful candidate will teach at the undergraduate organic chemistry level and manage the undergraduate organic teaching labs. Responsibilities for the organic teaching labs will include experiment development and testing, supply purchasing, weekly lab setup, managing teaching assistants and maintenance of instruments and labs. The organic lab facilities are comprised of three labs with associated instrument rooms and computer analysis rooms in the recently completed Enzi Undergraduate Lab Facility (<http://www.uwyo.edu/chemistry/building/>). The successful applicant will also be required to contribute to departmental and university services.

Review of applications will begin January 15, 2018 and continue until suitable candidates are identified. The position will start Fall 2018 and will be filled at the Assistant APL level (6 year renewable terms via 9-month appointments). 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. *Minimum Qualifications:* Ph.D. or equivalent in chemistry

Desired Qualifications: a strong background in practical organic laboratory operations, teaching experience at the undergraduate level and a strong understanding of mechanistic organic chemistry.

Required Materials: Complete the online application using the below link and upload as one document: a CV listing relevant organic laboratory experience, graduate level organic coursework, any teaching experience and include a statement of teaching philosophy.

https://jobs.uwyo.edu/psp/EREC/UWEXTERNAL/HRMS/c/HRS_HRAM.HRS_CE.GBL?Page=HRS_CE_JOB_DTL&Action=A&SiteId=6&JobOpeningId=9143&PostingSeq=1

Additionally, applicants should also arrange for three letters of recommendation to be submitted on their behalf to chemistry@uwyo.edu.

Duke's Chemistry Department is accepting applications for the Director of the Department's Shared Instrument Facility. The Director is responsible for the overall operation of the Facility, which includes but is not limited to instrument monitoring and maintenance, oversight of sample analyses, user training, administration for the Facility, and working with faculty to maximize the Facility's impact on the Department's research output. The facility houses instrumentation for mass spectrometry and a variety of spectroscopies. The Director will work with the Chemistry Department's Infrastructure Committee to define and implement the strategic goals of the Facility and to plan, direct, manage and lead the execution of scientific and research strategies, collaborations and operations of the Facility. A PhD degree is required as is experience with LC-MS/MS. Interested individuals should submit a CV and two letters of recommendation to <https://academicjobsonline.org/ajo/jobs/10037>.

Honeywell UOP, headquartered in Des Plaines, Illinois, USA, is a leading international supplier and licensor of process technology, catalysts, adsorbents, process plants, and consulting services to the petroleum refining, petrochemical, and gas processing industries.

An excellent career opportunity is available for a Sr. Engineer/Scientist within the Catalysis and Materials Research department of UOP's Research and Development organization located in Des Plaines, IL. This position represents a unique and visible opportunity to participate in the development of improved catalysts and adsorbents across a variety of UOP technology fields.

Responsibilities:

Maintain an active project portfolio of 2-4 research projects in the areas of catalyst and adsorbent research and development. Supervise laboratory technicians on carrying out required experimental plans. Ensure alignment of goals of research projects with business objectives. Interface with other UOP departments including Pilot Plants, Analytical and Advanced Characterization to ensure robust catalyst development programs. Stay current on patent and open literature as they relate to research programs. Participate in all departmental safety activities and conduct all work with a high degree of attention to safety.

Ph.D. candidates and postdocs in Chemistry and Chemical Engineering are encouraged to apply.

Interested candidates should email resumes to Qianjun.Chen@Honeywell.com

Intel Corporation has several openings in the Logic Technology Development group for physical science Ph.D.s to support/direct R&D of advanced processing methods.

Candidates hired for these positions will be responsible for developing the next generation of Intel's microprocessors.

Ph.D. candidates in Materials Science, Chemistry, Chemical Engineering, Physics, Electrical Engineering or related fields are encouraged to apply.

Criteria for selection include: a strong academic record, demonstrated experimental expertise, an ability to drive and take responsibility for projects and a solid peer-reviewed publication record.

Hands-on experience using and maintaining complex scientific equipment is preferred, but not required.

Ideal backgrounds include experience with one or more of the following process methods: atomic layer deposition (ALD), chemical vapor deposition (CVD), Physical vapor deposition (PVD), chemical-mechanical polish (CMP), Electroplate, or Electroless plating.

Familiarity with other complex deposition and surface science technologies is a plus.

Openings are immediately available at Intel's primary development facility (Ronler Acres) located ~10 miles west of Portland, OR.

Interested candidates should email resumes to david.j.towner@intel.com

The University of Nevada, Reno is searching for a continuing full-time non-tenure-track Chemistry Lecturer. Duties include lecturing at the introductory and intermediate levels including physical chemistry, general chemistry, and analytical chemistry; overseeing the physical chemistry and instrumental analysis instructional laboratory programs and coordinating with departmental lecture courses; curriculum development and implementation; and undergraduate advising.

The successful applicant for this position will be encouraged to develop new laboratory experiments, with possibilities for incorporating modern physical chemistry laboratory experiments and computational chemistry. Applications for internal instructional enhancement funding and contributions to proposals for external instructional funding will also be encouraged.

This position requires training, evaluating and organizing the activities of graduate level teaching assistants; working effectively with chemistry stockroom staff; coordinating activities with other faculty; and working effectively with the department's Director of Laboratories/Safety Officer.

This is a 9-month full-time continuing position, with the potential for further summer opportunities including teaching, research, student advising, curricular development, and/or laboratory management.

The University of Nevada, Reno has a growing and increasingly diverse student population of approximately 21,000, including over 2,800 graduate students. The city of Reno offers an excellent quality of life, with entertainment and cultural opportunities in excess of most cities of similar size. The city lies one hour from Lake Tahoe and four hours east of San Francisco in the valley of the Truckee River on the eastern slope of the Sierra Nevada, and has a mild high desert climate. A highly rated location for living and outdoor recreation, the Reno area also enjoys a flourishing and diverse intellectual, artistic, and cultural community.

The University of Nevada, Reno recognizes that diversity promotes excellence in education and research. We are an inclusive and engaged community and recognize the added value that students, faculty, and staff from different backgrounds bring to the educational experience.

Required Qualifications

Doctoral degree in Chemistry or closely related field and teaching experience.

Preferred Qualifications

Evidence of ability in and strong commitment to the following areas: teaching effectively at the introductory and intermediate levels of physical, analytical and general chemistry; developing and implementing new lecture and laboratory curricula; management of an instructional laboratory program.

Contact Information for this Position

Sharee Williams (775) 682-8795 shareew@unr.edu <https://www.unrsearch.com/postings/25901>

New College of Florida invites applications for a tenure-track Assistant Professor position in Organic Chemistry and a tenure-track Assistant Professor position in Bioorganic Chemistry, both starting in August 2018. A Ph.D. in chemistry is required for both positions. The successful candidates must be committed to excellence in teaching and research. Teaching experience and postdoctoral research experience are strongly preferred. New College is committed to recruiting and retaining a diverse faculty. Women and candidates from underrepresented groups or whose knowledge or skills can support an inclusive culture and learning environment are especially encouraged to apply.

The teaching load is two courses per semester plus sponsoring individual and group tutorials. In addition to classes and tutorials, faculty members provide academic advising, supervise independent study projects, sponsor senior undergraduate theses/projects, and serve on baccalaureate committees. We are particularly interested in candidates who have a demonstrated commitment to innovative undergraduate liberal arts teaching. The successful candidates are expected to establish and maintain a program of research. New College welcomes research programs that complement those of the current faculty.

Situated on the Gulf Coast of Florida and Sarasota Bay, New College is a nationally recognized, highly-selective public honors college with an 11:1 student/faculty ratio. Students are intellectually independent and highly motivated. Undergraduate research has a central role in the curriculum, and a senior thesis/project is required of all students. Students receive narrative evaluations in lieu of grades. New College is committed to excellence in undergraduate teaching and research and encourages collaborative student-faculty scholarship. www.ncf.edu. A description of the Division of Natural Sciences is at <https://www.ncf.edu/academics/undergraduate-program/division-of-natural-sciences/>.

A complete application will include a letter of application, curriculum vitae, the names of three references (including at least one who can address teaching), unofficial graduate transcripts, a statement of teaching philosophy that includes course proposals, a statement regarding the candidate's contributions or approaches to supporting an inclusive culture and learning environment, and a description of proposed research that specifically highlights how undergraduates would participate. Review of completed applications will begin October 2 and continue until the position is filled. According to Florida law, applications and meetings regarding applications are open to the public upon request. An online application:

<https://ncf.simplehire.com/> should be completed. New College of Florida is an EOE institution.

The Department of Chemistry at Case Western Reserve University(CWRU) invites applications for a tenure track Assistant Professor faculty position in the research area of RNA chemistry. Preference will be given to candidates with demonstrated expertise in applying chemical methods to study RNA structure-function, protein-RNA complexes, or RNA-targeted small molecule synthesis. The successful candidate will be expected to develop an internationally visible research program supported by external funding and will contribute to teaching within the areas of organic chemistry. Normal teaching load for faculty with active research programs is one course per semester plus ancillary duties. A Ph.D., research publications, and postdoctoral (or comparable industrial) experience are required. This position is related to recent Departmental and University strategic initiatives, and builds upon the strong history of RNA science at CWRU. The new hire will thus complement current expertise in RNA science, and be expected to establish collaborations with scientists at centers such as the Center for RNA Science & Therapeutics, the Center for AIDS Research, and the Case Comprehensive Cancer Center.

To be considered, a letter of application, CV, and a summary of research plans should be sent by email c/o Suzi Mason (sxm763@case.edu) before November 10, 2017. In addition, three letters of recommendation should be independently emailed directly to Suzi Mason by this date.

In employment, as in education, Case Western Reserve University is committed to Equal Opportunity and Diversity. Women, veterans, and members of underrepresented minority groups and individuals with disabilities are encouraged to apply. Case Western Reserve provides reasonable accommodations to applicants with disabilities. Applicants requiring reasonable accommodation for any part of the application and hiring process should contact the Office of Inclusion, Diversity and Equal Opportunity at 216-368-8877 to request a reasonable accommodation. Determinations as to granting reasonable accommodations for any applicant will be made on a case-by-case basis.

California State University, San Bernardino Department of Chemistry and Biochemistry is accepting applications for a full-time tenure-track Assistant Professor of Biochemistry

SPECIALIZATION: Any area of biochemistry; expertise in biomaterials, biomolecular modelling, bioinformatics or bioanalytical chemistry would complement existing research capabilities, and could lead to research collaboration and/or course development..

DUTIES OF THE POSITION: Innovative and cutting-edge teaching at the undergraduate level. Bring creative approaches in teaching general and introductory chemistry, biochemistry, and in the area of specialization (e.g. bioanalytical chemistry, biomaterials, bioinformatics, etc.). Develop, implement and sustain an externally funded, independent research agenda involving undergraduate students. Participate in service activities in support of the department, college, university, and/or community.

RANK AND SALARY: Assistant Professor. Salary is dependent upon educational preparation and experience, and is subject to budgetary authorization.

DATE OF APPOINTMENT: Fall Quarter 2018 (September).

QUALIFICATIONS: Candidates must have a Ph.D. in chemistry, biochemistry, or closely-related field, conferred by time of appointment. Postdoctoral experience and/or teaching experience is desirable.

APPLICATION DEADLINE: Review of completed applications will begin on October 16, 2017.

Please submit contact information and copies of transcripts of all post-secondary degrees (official transcripts will be required prior to appointment), curriculum vitae, a statement of teaching philosophy and strategies, and a statement of research/professional accomplishments, and future plans, and a Diversity Statement with a cover letter. Please also arrange to have three letters of reference sent on your behalf to facultyrecruitment@csusb.edu.

Materials are submitted online through <https://.governmentjobs.com/careers/csusb/jobs/1801088-0/chemistry-biochemistry-assistant-professor-tenure-track>.

Referees should email confidential letters of recommendation to facultyrecruitment@csusb.edu.

Questions may be directed to the department chair,

Kimberley Cousins at kcousins@csusb.edu.

Further information regarding this position may be viewed on our website: <http://chem.csusb.edu/>

The College of Science at Virginia Tech and the Academy of Integrated Science, through its Integrated Science Curriculum (<https://www.ais.science.vt.edu/programs/isc.html>), are placing a strong emphasis on integrated and interdisciplinary teaching. As part of this initiative, Virginia Tech has a non-tenure track faculty position for the Leader of the Integrated Science Curriculum in the Academy of Integrated Science to start in Fall 2018. The appointment will be at the rank of Collegiate Assistant Professor with an initial 3-year appointment and the possibility of multi-year renewal upon successful review.

The Integrated Science Curriculum is a two-year program that prepares students from the College of Science for their respective majors through a curriculum built around student teams working on problem-oriented exercises while mastering interdisciplinary concepts. Biology, chemistry, mathematics, and physics are intertwined, in lectures and in labs, to achieve a dynamic understanding of a wide range of fundamental principles within the modern scientific method.

We seek candidates who are passionate about interdisciplinary teaching of undergraduate students in an inclusive and integrated environment. Responsibilities include teaching undergraduate courses and laboratories related to the Integrated Science Curriculum, where successful candidates will:

- Make significant contributions to our interdisciplinary undergraduate instruction; coordinate laboratory and lecture courses, work closely with our undergraduate students, and lead efforts in curriculum enhancements and innovative pedagogy;
- Continue to develop professional capabilities and participate in scholarly activities, including travel to and participation in professional conferences and societies; and participate in department, college, and university service and governance, as well as professional service.

Applicants must have a Ph.D. in biochemistry, biology, chemistry, physics or a closely related field. Successful candidates will be expected to teach effectively at the undergraduate level and work closely with the existing interdisciplinary programs in the Academy of Integrated Science. Applications must be submitted online at <https://listings.jobs.vt.edu/postings/80232> (posting number TR0170134) and should include a cover letter, curriculum vitae, a statement of teaching philosophy that describes an integrated vision for interdisciplinary science education, a description of previous activities mentoring minorities, women, or members of other underrepresented groups as well as how the applicant will further Virginia Tech's commitment to build a culturally diverse educational environment, and contact information for three references. The review of applications will begin on January 15, 2018 and continue until the position is filled. As part of the hiring process, the successful applicant must pass a criminal background check. Questions regarding the position can be directed by Email to Prof. Michel Pleimling, Integrated Science Curriculum Faculty Search Committee Chair, at pleim@vt.edu.

Virginia Tech is an EO/AA university, and offers a wide range of networking and development opportunities to women and minorities in science and engineering, and additionally provides a competitive dual hiring program for couples. Individuals with disabilities desiring accommodation in the application process should notify Dr. Nora Dragovic in the Academy of Integrated Science (Email: nora84@vt.edu, Tel: 540- 231-8131).

Bridgestone Americas Center for Research and Technology located in Akron, Ohio is currently seeking applications for Synthesis Chemist positions for the Synthesis Group at the Bridgestone Center for Research and Technology.

Qualified candidates should have a Ph.D. in Organic, Inorganic or Polymer Chemistry, with a strong fundamental understanding of Organic and Inorganic Chemistry as well as excellent bench synthesis skills with an interest and demonstrated ability to perform hands-on synthesis, purification, and characterization experiments. Some knowledge of and experience with polymers is preferred but not required. We are seeking candidates with 0-7 years of post-doctoral industrial experience. Scientists will work in a multidisciplinary environment collaborating with a team of scientists and engineers to develop, optimize and scale up the production of new polymers and other materials for tire as well as non-tire applications.

The ideal candidate should be a creative individual with much initiative, a strong academic record, and have good problem-solving abilities. Solid verbal/written communication and interpersonal skills are also needed. The ability to interact effectively with other researchers locally as well as associates in other parts of the Corporation in the US and abroad is critical to success in this position.

Applicants must be authorized to work in the United States. A pre-employment drug test is required. Interested parties are invited to apply by visiting this website:

https://bebridgestone.com/en_us/job-details?id=2017-118051

Bridgestone Americas, Inc. is an Equal Employment Opportunity (EEO) employer.

The Department of Biochemistry at The University of Texas Southwestern Medical Center invites applications from candidates for a tenure-track/tenured faculty positions at the rank of Assistant, Associate or Full Professor. Candidates should be engaged in innovative research in organic chemistry or natural products chemistry. The Biochemistry Department offers a vibrant environment for research in chemistry, drug discovery and the chemistry biology interface. The successful applicant will be expected to carry out an effective research program and to teach at the graduate level. Assistant Professor applicants should submit a *curriculum vitae*, a summary of research experiences, a description of research plans, and three letters of reference. Candidates for a senior position are expected to have already established a vigorous independent and funded research program in organic chemistry or natural products chemistry.

Applicants for Associate/Full Professor should submit a *curriculum vitae*. All applications are due November 1, 2017 and should be submitted through the academicjobsonline web site at <https://academicjobsonline.org/ajo/jobs/9502>.

Any correspondence can be addressed to Dr. Margaret Phillips, Chair, Department of Biochemistry at biochem.search@utsouthwestern.edu

UT Southwestern Medical Center is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans and individuals with disabilities are encouraged to apply.