

2013 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
July 1, 2013

No events scheduled this week.

Thursday, July 4: Independence Day; NU closed

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

Arrivals and Departures

Sam Kleinman left the Van Duyne group.

Dajiang Mei left the Ibers group.

Mausumi Ray left the Schatz group.

Biswajit Saha left the Schatz group.

Upcoming Events

The X-Ray Diffraction facility of IMSERC is hosting the American Crystallographic Association's Summer Course in Chemical Crystallography, June 23rd to July 3rd. Twenty-eight attendees and 18 instructors from around the world will be participating in the 10-day intense workshop. Please be advised of the increased traffic in and around IMSERC for the duration of the course.

Opportunities

Roosevelt University seeks a Visiting Postdoctoral Teaching Fellow and Coordinator of Science Initiatives to start Aug 15, 2013. Responsibilities include teaching introductory organic and/or general chemistry courses (~50%) and supporting an NSF-funded initiative in science education (~50%). Teaching will include three lecture or laboratory/discussion sections of organic and/or general chemistry per semester in the regular academic year. Grant coordinator duties will include: (1) direct an academic year peer tutoring program, (2) direct a summer undergraduate research program, (3) assist in summer bridge programs to prepare students for general and organic chemistry, and (4) assist in recordkeeping, assessment & program evaluation. Opportunities exist for undergraduate research, grant writing and professional development in the scholarship of teaching and learning. Minimum qualifications include a Ph.D. in chemistry, biochemistry or related field; excellent interpersonal, organizational and communication skills, and a commitment to undergraduate science education and diversity initiatives. Prior experience teaching and mentoring undergraduates is preferred. Postdoctoral experience is welcome but not required.

This is a one-year, full-time, 12-month, salaried position with benefits. To apply, visit our website at jobs.roosevelt.edu and submit (1) a letter of application, (2) *curriculum vitae*, (3) statement of teaching philosophy, and (4) a file containing the names and contact information of 3 references. Only the names and contact information of referees are required, however, to expedite consideration, candidates may request letters of recommendation to be sent directly to Dr. Kristen Leckrone, Department of Biological, Chemical, and Physical Sciences, Roosevelt University, 430 S. Michigan Ave, Chicago, IL, 60618, or as electronic copies to kleckron@roosevelt.edu. Applications accepted immediately. Screening begins on July 1, 2013 and continues until the position is filled.

Roosevelt University is an institution dedicated to social justice that serves a diverse population of students with campuses in Chicago's South Loop and suburban Schaumburg. Roosevelt University is an equal opportunity/affirmative action employer. Women and underrepresented minorities are strongly encouraged to apply.

The Johns Hopkins University Applied Physics Laboratory (JHU/APL) is currently seeking a postdoctoral fellow in support of ongoing chemistry research efforts. The successful candidate must have a Ph.D. in

inorganic or organic chemistry with extensive synthetic experience. Experience should include air free synthesis, and NMR, fluorescence, FTIR, GC-MS and UV-vis spectroscopy. Large-scale synthetic and process chemistry experience is desirable. The candidate must demonstrate strong oral and written communication skills accompanied by good organizational skills. A candidate must have excellent interpersonal skills and be able to work independently. The applicant selected will be subject to a government security clearance investigation and must meet the requirements for access to classified information. Eligibility requirements include U.S. Citizenship. This is a one-year term position with the possibility of renewal for a second year and the offer of a permanent position. Johns Hopkins University Applied Physics Laboratory is an equal opportunity/affirmative action employer that complies with Title IX of the Education Amendments Acts of 1972, as well as other applicable laws, and values diversity in its workforce.

To apply for the position, please visit <http://www.jhuapl.edu/employment/default.asp>, Click the *Experienced Professionals* tab and under *Job Number* enter 04563.

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: August; Opens June 1; Closes August 1

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

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

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

Tennessee Tech Department of Chemistry has an open position for a full-time temporary Biochemist. We have planned searches over the next several years for many tenure-track positions, and I am hoping to identify candidates for the temporary positions that would be excellent candidates for the tenure-track positions. Candidates will have the opportunity to further develop independent research during the term of their employment as space and funds allow. It should be noted that we have excellent NMR and Mass Spect instrumentation in addition to the normal suite of instrumentation found in any research active chemistry department, including the ability to carry out “omics” research. We are a Doctoral/STEM university also referred to as a Masters-Large University as designated by the Carnegie system. Our chemistry department runs a successful Masters Degree program, but we also participate in an interdisciplinary Ph.D. program. Our PhD students represent almost all areas of Environmental Chemistry (Analytical, Biochemical, Inorganic, Organic, Physical). We currently have 20 faculty. Our typical graduation rates include the following: BS Chem: 30-40 graduates/year MS Chem: 5-8 graduates/year PhD: 2-4 graduates/year. We are located in Cookeville, TN, about an hour outside Nashville, in the foothills of the Cumberland Mountains on the Cumberland Plateau. While the pay for the temporary position is \$43K/9-month contract, permanent positions are generally offered at approximately the CUPA rate for beginning assistant professors (currently ~\$59K/9-months). The cost of living is quite low in this area which should make this opportunity attractive for many individuals/families. The

chemistry department website is <http://www.tntech.edu/chemistry> and our PhD program website is <http://www.tntech.edu/evs>. candidates should feel free to contact me (Jeff Boles) at JBoles@tntech.edu for further information should they desire to do so.

Postdoctoral Research Associate Position at Washington University in St. Louis

Department of Energy, Environmental, and Chemical Engineering

Under the supervision of Dr. Marcus Foston

Research Area: Sustainable Polymer Synthesis and Applications of Renewable Resources in High Performance Materials (<http://foston.eece.wustl.edu/>).

Qualifications: Independent and highly motivated candidates are sought with an earned Ph.D. in organic chemistry, polymer engineering, material science, or a closely related field. Expertise in air-free organic synthesis techniques, polymer chemistry (e.g., *anionic and controlled/living radical polymerizations*), and biomass utilization as well as significant experience with materials/processes characterization techniques (e.g., GPC, FTIR, SEM, NMR, and MS) is preferred. An additional requirement will be teaching graduate students air-free organic synthesis techniques.

Potential projects: include the synthesis (1) of silica nanoparticles with multi-block copolymer surface brushes as nano-rulers, (2) of polyhydroxylated polymers, copolymers, and nanocomposites from sugar-derived monomers, and/or (3) of all cellulose-based block copolymers.

Duration: The position is for one year with the possibility of extension based on performance and funding. The start date is flexible, but should ideally be no later than September 1, 2013.

Applications: Applicants should apply through <https://jobs.wustl.edu> (Job Opening ID: 24692), preparing a cover letter detailing relevant experience and research interests (2 pages max), curriculum vitae, and a list of three references. Please also email your cover letter and curriculum vitae to Dr. Marcus Foston (mfoston@wustl.edu). Review of applications will begin immediately, however application not submitted to Washington University's online employment system will not be considered.

Relevant WUSTL Facilities: The Department of Energy, Environmental and Chemical Engineering (<http://eece.wustl.edu/>); Nanoscale Research Facility (a member of the National Nanotechnology Infrastructure Network (NNIN), supported by the NSF, <http://nano.wustl.edu/>); Center for Materials Innovation (<http://www.cmi.wustl.edu/>); Institute for Public Health (<http://publichealth.wustl.edu/>); McDonnell Academy Global Energy and Environment Partnership (<http://mageep.wustl.edu/>); among others.

Argonne Assistant Chemist Job Opening

Please see this link for job posting and application instructions:

<http://web.anl.gov/jobsearch/detail.jsp?userreqid=320713+CSE&lsBrowse=THISWEEK>

Worcester Polytechnic Institute (WPI) invites applications and nominations of candidates for the Richard T. Whitcomb Professorship in Biochemistry. The appointment will be made in the Department of Chemistry and Biochemistry (CBC) in the Arts and Sciences at WPI. The Department offers undergraduate and graduate (MS and PhD) degrees in Chemistry and Biochemistry. CBC is integral to WPI's ongoing major life science research initiative and five new faculty at the assistant, associate and full professor level were recently hired. This Professorship offers a generous start-up package, continued financial support for research and substantial laboratory space in the recently built, state-of-the-art Life Sciences research facility. The holder of the Whitcomb chair will be a dynamic scholar and teacher, with a strong track record of creativity and an internationally highly visible research program, studying biochemical systems at the molecular level. The successful candidate will have a strong record of continued funding, high impact publications, and a solid presence in the scientific community.

Interested candidates should submit a single pdf-formatted file including a cover letter, a curriculum vitae, statement of research and teaching interests, achievements and plans, and a list of three references to WhitcombSearchCBC@wpi.edu. Inquiries can be addressed to Dr. José Argüello (arguello@wpi.edu) Whitcomb Search Committee, Department of Chemistry and Biochemistry, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609. Review of applications will commence immediately and continue until the position is filled.