

**2014 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**May 19, 2014**

- Monday May 19:                    *The Abbott Lecture in Organic Chemistry:*  
   *Erick M. Carreira and Travis B. Dunn*  
   Pancoe-NSUHS Life Sciences Pavillion, Abbott Auditorium  
   4:00 – 6:00pm
- Tuesday May 20:                    *Faculty Lunch Seminar: Tamar Seideman*  
   Tech K140  
   12:00 – 1:00pm
- Thursday May 22:                    *Organic Seminar: Craig Crews*  
   Ryan Hall 4003  
   4:00 – 5:00pm

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

**BIP**

Meets every Friday at 3:00pm in Tech K140

**Arrivals**

There were not any new arrivals this week

**Announcements**

**The ANSER Center and ISEN are proud to host the 7th ANSER Solar Energy Symposium on May 22-23, 2014 on Northwestern University's Evanston campus. Please mark your calendars!**

We will be celebrating ANSER's fifth anniversary this year, and the Keynote will reflect on the Center's greatest achievements during that time and also provide a window into the future of solar energy research at ANSER. The focus of this year's symposium is "Solar Fuels," and we are excited to have an all-star lineup of speakers for this event.

*Keynote: Thursday, May 22<sup>nd</sup>, 4:00 - 5:00 pm (Pancoe Auditorium)*  
[Prof. Michael Wasielewski \(Northwestern University/ISEN/ANSER\)](#)

*Friday, May 23<sup>rd</sup>, 9:00 a.m. - 4:00 p.m. (McCormick Tribune Forum)*

[Prof. James Mayer \(University of Washington in Seattle\)](#)

[Prof. Eric Masanet \(Northwestern University\)](#)

[Dr. David Tiede \(ANL\)](#)

[Prof. Gary Brudvig \(Yale University\)](#)

[Prof. Frank Osterloh \(University of California – Davis\)](#)

Please visit the [ANSER Symposium website](#) for additional event and speaker information, fill out [this form](#) to register, and forward this email to anyone you know who might be interested in attending our Symposium.

We look forward to seeing you on May 22<sup>nd</sup> and 23<sup>rd</sup>!

## **Opportunities**

**The Materials Research Science and Engineering Center (MRSEC) at the University of Utah (Salt Lake City)** is seeking an outstanding, highly motivated postdoctoral research candidate. The position will be within the Spin Injection Focused Research Group of the Organic Spintronics IRG. The successful candidate must have extensive experience in the synthesis and characterization of molecular materials (organic/organometallic/coordination compounds) for study and evaluation as component materials for a variety of molecular-based spintronic devices. Expertise to synthesize thin films is not essential, but desired. The successful candidate is expected to work in a very multidisciplinary environment provided by the active collaboration with experimental and theoretical physicists and materials scientists and contribute to advancement of these areas.

The position is effective immediately, and open for candidates with a Ph.D. (or equivalent degree) in chemistry and materials science and engineering, and only candidates possessing extensive experience in complex syntheses of organic and/organometallic compounds that are very air sensitive should apply. Applications materials (cover letter, detailed CV, contact information of three references) should be sent to Prof. Joel S. Miller ([jsmiller@chem.utah.edu](mailto:jsmiller@chem.utah.edu)). The attached Cover Sheet must be completely filled out. For more information about the Utah MRSEC, see <http://www.mrsec.utah.edu/>

*The University of Utah is an Equal Opportunity/Affirmative Action employer and educator. Minorities, women, and persons with disabilities are strongly encouraged to apply. Veterans preference. Reasonable accommodations provided. For additional information: <http://www.regulations.utah.edu/humanResources/5-106.html>. The University of Utah values candidates who have experience working in settings with students from diverse backgrounds, and possess a [strong or demonstrated] commitment to improving access to higher education for historically underrepresented students.*

**The Georgia Institute of Technology, School of Chemistry and Biochemistry** seeks to fill a tenure-track faculty position in the development of any aspect of chemistry or biochemistry related to feedstocks from renewable and sustainable sources. Research areas of interest include, but are not limited to, functional biomaterials, catalysis, energy harvesting and storage, efficient syntheses and processes, and plant bioengineering and synthetic biology. Opportunities for significant interaction with and support from the Institute for Paper Science and Technology at Georgia Tech ([ipst.gatech.edu](http://ipst.gatech.edu)) will be available. Candidates with interdisciplinary research programs may be considered for joint appointments with other campus units.

Exceptional candidates at all levels are encouraged to apply. Assistant Professor candidates should submit a cover letter, curriculum vitae, description of research plans, description of teaching interests and philosophy, and arrange for the submission of three letters of recommendation. Candidates at advanced levels should submit a cover letter, curriculum vitae, and the names and contact information of three references. All materials and requests for information should be submitted electronically, as per the instructions found at:

<https://academicjobsonline.org/ajo/jobs/4045>

The application deadline is September 15, 2014, with application review continuing until the position is filled. Georgia Tech is an equal education/employment opportunity institution.

**The Chemistry Department at Valparaiso University** invites applications for a Visiting Assistant Professor position in chemistry, beginning in August 2015. A PhD is required; previous teaching experience is desirable but not necessary. The teaching responsibilities of this position will be a non-majors Introductory Chemistry course (mostly general chemistry with some organic and biochemistry) and the associated laboratory. Applicants must have a strong commitment to excellence in undergraduate teaching. Research is not a necessary part of this position, but the opportunity will be available to engage in research with undergraduate students if the candidate so desires. The position is potentially renewable for up to three years.

We expect that this position will be attractive to recent PhD's who wish to teach at a predominately undergraduate institution and are interested in gaining experience in such a setting.

Valparaiso University is a distinguished private university of 4000 students, one hour southeast of Chicago, and offers ACS certified degrees in Chemistry and Biochemistry. Candidates should be interested in working at a university engaged in issues in Christian higher education in the Lutheran tradition.

To apply, submit a cover letter, CV, statement of research interests, statement of teaching philosophy and experience, undergraduate and graduate transcripts, and three letters of recommendation via email to Dr. Steven Engerer, [Steven.Engerer@valpo.edu](mailto:Steven.Engerer@valpo.edu) Review of applications will begin immediately and continue until the position is filled.

Valparaiso University does not unlawfully discriminate and aims to employ persons of various backgrounds and experiences to help constitute a diverse community. Its entire EOE policy can be found at <http://www.valpo.edu/equalopportunity/index.php>. Successful applicants will demonstrate a commitment to cultural diversity and the ability to work with individuals or groups from diverse backgrounds.

**Daubert Cromwell, LLC**, a leading name in corrosion prevention as an immediate opening for a Corrosion Chemist or part-time Corrosion Consultant. Ideal candidates should have a Bachelor or Master's Degree in Chemistry, Chemical Engineering, or related field and experience/education in one or more of the following areas: Corrosion, Metallurgy, Packaging, or Coatings.

Daubert Cromwell is a global manufacturer of corrosion inhibitor (VCI) packaging products used by customers in metal stamping and fabricating, heavy equipment, automotive, electronics and other industries where corrosion prevention is critical. Since 1948, quality manufacturers have trusted Daubert Cromwell to protect valuable metals during all stages of production, storage and shipment. Today its proprietary VCI chemistry is used throughout the metalworking industries. Through proven quality and years of exemplary service, the company has earned its reputation as "The leading name in corrosion prevention®."

Daubert Cromwell operates from a state-of-the art facility in suburban Chicago. This corporate center is headquarters for manufacturing, shipping, sales/marketing management, customer service support and technical functions. Regional sales managers are strategically located in geographic territories throughout the U.S. and Canada. The company has subsidiaries in Europe, China and Mexico, and a global sales team coordinating customer requirements in Japan, India, Southeast Asia, Australia, and South America.

Please email your resume/cover letter and salary requirements to Sandy Killeen, HR Manager, Daubert Cromwell, LLC @ [skilleen@daubertcromwell.com](mailto:skilleen@daubertcromwell.com).

**University of Basel in Basel, Switzerland** has an postdoctoral position open in the group of Dr. Michal Juricek. The recently established research group of Dr. Michal Juricek is looking for a highly motivated postdoctoral candidate to develop a methodology to stabilize open-shell grapheme fragments to an extent which will allow for their isolation and characterization in the solid state. Open-shell graphene fragments represent one of the remaining frontiers of polycyclic hydrocarbons and understanding how spin distributions in such systems relate to their properties is important in evaluating, for example, the impact of defects in graphene on its conductivity.

The ideal candidate should have a PhD degree in chemistry with strong background in organic synthesis and/or

studies of multiracial systems. He/she should have experience with analytical methods, such as NMR, IR and UV-vis spectroscopies, chromatographic techniques (flash column, GPC, HPLC), cyclic voltammetry, and mass spectrometry. An excellent level of the English language is required. German language knowledge is welcome but not mandatory.

Interested candidates should contact Dr. Michal Juricek as soon as possible via e-mail at [michal.juricek@unibas.ch](mailto:michal.juricek@unibas.ch) and provide a detailed curriculum vitae, including research experience and list of publications, motivation letter, as well as contact details of at least one academic referee (preferably two or three).

**The Dow Chemical Company BEST Symposium** The 8<sup>th</sup> annual *BEST* Symposium will be held in Midland, MI on September 15-17, 2014. *BEST* (*Building Engineering and Science Talent*) introduces doctoral and post-doctoral scientists from U.S. ethnic minority groups to the wide range of rewarding careers in industrial research, particularly the many opportunities available here at Dow. This conference, developed jointly by Dow's minority scientists and Ph.D. recruiting team, supports the company's commitment to a diverse work force.

Targeted degree areas for recruitment for *BEST* are chemistry, chemical engineering, materials science, physics, biochemistry, molecular biology, microbiology, and closely related fields. Applicants should be within 18 months of degree completion by the conference date. Apply for the conference by visiting our website at <http://www.dow.com/BEST>. All applications are due by June 20<sup>th</sup>, 2014.

If you would like additional information on *BEST*, please do not hesitate to contact Joseph Atkins, 2014 *BEST* Symposium Chairperson [jratkins@dow.com](mailto:jratkins@dow.com) or [best@dow.com](mailto:best@dow.com)

**The Department of Biological, Chemical and Physical Sciences at Roosevelt University** has an opening for a full-time Visiting Assistant Professor, Organic Chemistry.

Location: Teaching duties will include courses at both the Chicago and Schaumburg campuses

Job Summary: The Department of Biological, Chemical and Physical Sciences invites applications for a one-year full-time visiting faculty position in organic chemistry, beginning August 2014. Duties include teaching organic chemistry I and II lectures, discussions and labs, synthetic organic chemistry, and/or upper level courses in the candidate's specialty. Opportunities for undergraduate research are also available. The successful candidate will demonstrate a commitment to undergraduate education and strong verbal and written communication skills.

Minimum Qualifications: PhD in organic chemistry or closely related discipline.

Preferred Qualifications: Additional teaching and/or postdoctoral experience is preferred.

Required Applicant Documents

1. Letter of interest
2. Curriculum vitae
3. Teaching statement
4. Contact information for three references

Optional Applicant Documents: Statement of undergraduate research interests.

Special Instructions to Applicants: Upload required and, if desired, optional documents to HR website, [jobs.roosevelt.edu](http://jobs.roosevelt.edu). Candidates should request references to send letters directly to Prof. Kristen Leckrone, [kleckron@roosevelt.edu](mailto:kleckron@roosevelt.edu). Review of applications begins March 1, 2014 and continues until the position is filled.

**Sharpless Laboratory at the Scripps Research Institute**, La Jolla, [www.scripps.edu/sharpless/](http://www.scripps.edu/sharpless/) has five postdoctoral positions available starting on June 15<sup>th</sup> to work on the new Sulfur(VI) Fluoride Exchange chemistry (Sulfur(VI) Fluoride Exchange (SuFEx): Another Good Reaction for Click Chemistry, Jiajia Dong, Larissa Krasnova, M.G. Finn, K. Barry Sharpless\*, *Angew. Chem. Int. Ed.* in press).

The successful candidates will have expertise in organic, organometallic and medicinal chemistry with an

outstanding publication record in top chemistry journals. Experience with multiple assay platforms such as LC-MS, HPLC or complex molecule synthesis is desired. Ability to manage multiple projects, strong communication and grant writing skills and work independently in interdisciplinary fields is required. Please send a cover letter, a Research Summary, CV and list three individuals as references to [kbslab.scripps@gmail.com](mailto:kbslab.scripps@gmail.com)

**The Department of Chemistry and Biochemistry, University of California at San Diego** has a postdoctoral position in synthetic organic and/or medicinal chemistry available in the laboratory of Prof. Seth M. Cohen [www.cohenlab.ucsd.edu](http://www.cohenlab.ucsd.edu)

The position is available immediately and will be filled as soon as a suitable candidate is identified. A highly motivated candidate is sought to pursue investigations broadly defined in the area of metalloprotein inhibitor development. This includes studies on the design and synthesis of new small molecule inhibitors, the development of inhibitor ‘prodrugs’, and related studies (for more information and a list of relevant publications see <http://cohenlab.ucsd.edu>). Qualified applicants are expected to have a strong record of productivity (e.g. publications), good oral and written English language skills, and should be able to provide three letters of recommendation. Extensive experience and proficiency in multi-step organic synthesis is required along with appropriate analytical, purification, and characterization methods. Such methods may include, but are not limited to: chromatography, NMR, MS, FTIR, UV-Vis, HPLC, etc. Experience in biochemical assay development, in vitro screening, and/or computational docking and structure-based drug design would be additional skills of interest. Candidates with more biochemically-oriented training (e.g. structural biology, protein expression/purification, etc.) may also be considered on a case-by-case basis.

Applicants should send a cover letter, CV, and three letters of recommendation to [scohen@ucsd.edu](mailto:scohen@ucsd.edu) The candidate should clearly indicate in the cover letter their available start date and long-term career goals. In addition, a statement indicating how the candidate’s training is ideally suited to our investigations on metalloprotein inhibitors is strongly encouraged – proposed research directions that the candidate would like to pursue are welcome

**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).