

2015 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
June 1, 2015

Tuesday June 2nd: *Faculty Lunch Seminar: Emily Weiss*
Tech K140
12:00 – 1:00pm

Wednesday June 3rd: *Marple-Schweitzer Memorial Lecture: Donald R. Sadoway*
Tech LR3
4:00 – 5:00pm

Friday June 5th: *Chemistry Colloquium: Stephen Bradforth*
Tech LR3
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 2:45pm in Tech K140

Arrivals

Vis Garimella joined the Mirkin Group

Announcements

Professor Mercuri Kanatzidis honored with Eni Award: Eni has announced the names of the researchers and scientists who have been honoured at the eighth edition of the Eni Awards, established in 2007, which over the years have become an international point of reference for research in the fields of energy and the environment. The Awards aim to promote a better use of energy sources and inspire new generations of researchers, reflecting the importance Eni attaches to scientific research and sustainability issues.

The Award for the "Renewable Energy Prize" category went to **Mercouri Kanatzidis**, from Northwestern University in Evanston (Illinois, USA), one of the international leaders in solid state chemistry. His research focuses on the development of new solid state semiconductors able to recover waste heat and convert it directly into electricity. More specifically, in having "nanostructured" the material of these thermoelectric semiconductors, i.e. having added nanocrystals with certain compositions which, at high temperatures, lead to a significant increase in performance. In practice, the 40-year old record of efficiency in heat-electricity conversion has now been surpassed and the basis for further development, including the implementation of veritable thermoelectric generators, has been provided. It has been estimated that the technologies that could be developed as a result of the work of Prof. Kanatzidis could allow the recovery of at least 50GW on a global scale.

More information about this year's awards, including additional recipients, can be found at:

http://www.eni.com/en_IT/media/press-releases/2015/05/Eni_Awards_appointed_the_winners_for_the_2015_edition.shtml

Interested in Law, Business, and Technology?

Consider the Master of Science in Law (MSL) Program

Join us for a Webinar - <http://northwesternuniversity.adobeconnect.com/mslwebinar>

June 4 at 4pm

Study the intersection of law, business & technology in the [Master of Science in Law](#) ("MSL"). The MSL is a new master's degree program offered by Northwestern University School of Law and is designed specifically for students with engineering, science, technology, mathematics, and medical backgrounds. The one-year MSL provides focused, business-centered legal training in the areas of intellectual property, entrepreneurship/business law, and regulation. MSL students learn how to navigate the legal issues they will confront as scientists, engineers, doctors, and technologists. We will provide a comprehensive overview of the MSL Program, including curriculum and career paths, and answer questions from the audience. Students who are interested in the MSL are also welcome to contact Susan Dennehy, Senior Program Coordinator, at susan.dennehy@law.northwestern.edu.

Opportunities

The 6th Chicago Organic Symposium will be held this year at the University of Illinois at Chicago on Saturday, July 11, 2015. The symposium organizers would like to invite you, your students, and your colleagues to this exciting event that brings together organic chemists in the Chicago area to celebrate their research achievements, spark new ideas, and bolster collaboration. Through several highly successful prior iterations, organized by Karl Scheidt, George Sheppard, Tom Driver, and Brandon Ashfeld, the COS has moved between Northwestern, UIC, and Notre Dame and has achieved participation from a variety of local academic institutions such as Northwestern, UIC, University of Chicago, Notre Dame, Loyola Chicago, Northern Illinois University, UW Madison, Indiana University, and Wayne State, as well as local chemical companies such as AbbVie, Eli Lilly, Astellas, Kalexsyn, and Vertellus. This year, we hope to continue to increase participation and a sense of community between organic chemists in the Chicago area.

The program for the 6th Chicago Organic Symposium boasts a stellar assembly of speakers from both academia and industry including Profs. Jared Lewis (U of C), Justin Mohr (UIC), Anita Mattson (OSU), Chad Eichman (Loyola Chicago), Karl Scheidt (Northwestern), Viresh Rawal (U of C), Gary Molander (UPenn), Dr. Steve Fidanze (AbbVie), and Dr. Rebecca Ruck (Merck). Part of the reason this symposium has been so successful in the past is the outstanding poster presentations by graduate students, post-doctoral researchers, and industrial attendees. To continue this valuable tradition, please encourage your coworkers to participate by submitting an abstract through the symposium website.

Please register by July 3, 2015. There is no charge for the event but we would like to know how many people to expect. If you are interested in presenting a poster, please also submit an abstract by June 26, 2015. More detailed information on registration and abstract submission can be found at <http://www2.chem.uic.edu/COS>.

If you have any questions, please feel free to contact the organizers at chicago.organic.symposium@gmail.com.

Pharmaceutical Sciences group at Merck & Co. Inc has several exciting Sr. Scientist openings. The positions will be located at our Rahway NJ or West Point PA sites. We are seeking talented chemists with backgrounds in analytical, organic, physical organic, organometallic, inorganic, physical, bioanalytical, biophysical or polymer chemistry. In this role, the Sr. Scientist will work in an interdisciplinary team supporting new product development activities. Example activities include:

- Solving challenging drug development problems
- Developing innovative analytical approaches to characterize small molecules and peptides in formulation
- Elucidate drug degradation mechanisms and develop mitigation strategies
- Characterize chemical and physical properties of excipients
- Support a variety of solid oral and parenteral dosage form development from a fundamental chemistry perspective

Interested applicants should send their resume to Yun Mao, PhD, Director, Analytical Sciences, Pharmaceutical Sciences at yun_mao@merck.com.

The Stanford Cancer Imaging Training (SCIT) Program, funded by the National Cancer Institute, aims to train the next generation of researchers in the development and clinical application of advanced techniques for cancer imaging. Our coursework, rich mentored training opportunities, and outstanding resources, provide an active, vibrant program that attracts students nationwide. Graduates from our program are highly sought after, filling faculty and industry research positions internationally. This two-year training program only accepts US citizens, non-citizen nationals, or permanent residents, and will help develop a US workforce to make progress in the battle against cancer. Stanford Cancer Imaging Training Program Applications are now being accepted (see details at <http://scitprogram.stanford.edu/apply>) Applicants must have a PhD or MD. Inquiries to Sofia Gonzales (sofias@stanford.edu)

Postdoctoral Fellow with the University of Missouri Any candidate with experience in inorganic or organometallic chemistry would be considered, but candidates with backgrounds in *electrochemical catalysis* or *carbon dioxide activation* would be a plus. This position will likely be funded through a collaborative NSF funded Center for Carbon Capture and Conversions (C4) (<http://www.brown.edu/research/projects/capture-and-conversion-of-co2/>), though sufficient startup funds are available to continue the position even if this center doesn't get renewed in Phase II.

Professor Wesley Bernskoetter will be bringing a wonderful group of current personnel from Brown, but is looking to expand the program with talented new hires. The start date is flexible, but summer-early fall is preferred. Any candidates who might be interested in a position are encouraged to send a CV and cover letter to wb36@brown.edu

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.