
WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS 60208-3113
September , 2008
CALENDAR FOR THE COMING WEEK

Monday, September 1, 2008 Labor Day – Holiday- University is closed

Friday, September 5, 2008 **Department Picnic**
Faculty, Staff, Postdocs and
Students are Welcome
Tech Patio
4:00p.m.

[The complete list of seminars and colloquia are available at www.chem.northwestern.edu/resources/](http://www.chem.northwestern.edu/resources/)

Save the Date

September 8th, 9th, and 10th, 2008 – **The Bender Lecture – Professor Christopher Walsh**, Harvard Medical School

September 12, 2008 – **Award for Excellence in Graduate Research 2006 – Dr. Christopher Graves**, Director's Postdoctoral Fellow, Los Alamos National Laboratory

September 24 & 25, 2008 - **The L. Carroll King Lecture – Professor Geraldine Richmond**, University of Oregon

October 17, 2008 – **Basolo Medal Lecture – Professor Robert Grubbs**, Caltech

October 24, 2008 – **The Aldrich Inorganic Lecture – Professor Ken Raymond**, University of California, Berkeley, Location “TBD” at 4:00p.m.

October 28th, 29th, & 30th, 2008 - **The Dole Lecture – Professor Stuart Rice**, University of Chicago

Opportunities

The newly-formed **Institute for Quantum Matter at Johns Hopkins and Princeton Universities** will combine materials synthesis, spectroscopy, and theory to uncover new materials functionality based on quantum correlations. Areas of interest include frustrated quantum magnetism, quantum criticality, quantum impurities, correlated superconductivity, and coupled magnetism & superconductivity. The successful candidates will participate in

coordinated research at the interface between theoretical and experimental condensed matter physics, chemistry and materials science.

- Postdoctoral Position in Novel Materials Synthesis: Located at Princeton University under the guidance of Prof. R. J. Cava, the successful candidate will realize novel quantum correlated states of matter through exploratory materials synthesis. A full array of solid state synthesis and material characterization tools will be employed to synthesize materials with targeted structural and physical characteristics. A Ph.D. in Chemistry or Condensed Matter Physics with experience in solid state chemistry are required.
- Research Staff Position for Crystal Growth: This position will establish a facility for crystal growth at the Johns Hopkins University. Conditions and methods to grow large crystals of materials discovered in Cava's lab and elsewhere will be developed. Sample quality and morphology will be optimized for bulk measurements, neutron and optical spectroscopy. A Ph.D. in Materials Science, chemistry, or Condensed Matter Physics is a requirement as is experience and a track record of success with a variety of crystal growth techniques including TSFZ and flux growth.
- Postdoctoral Position in Experimental CMP: The successful candidate will exploit a full range of experimental tools including high field bulk measurements, neutron scattering and THz spectroscopy to probe collective properties of quantum materials. New experimental tools at National Facilities and at JHU will be exploited and developed. A Ph.D. in Physics is a requirement and experience with neutron, photon, and muon based spectroscopies will be advantageous.
- Postdoctoral Position in Theoretical CMP: The successful candidate will work on problems in quantum magnetism, superconductivity, and related areas with the goal of advancing our understanding of materials with strong electron correlations. Early access to experimental results and opportunities to shape the experimental agenda will distinguish theoretical work at the IQM. A Ph.D. in Physics, familiarity with the tools of modern theoretical physics and experience in the field of strongly correlated materials are required.

For all positions, we seek candidates with strong interpersonal and communication skills. Please email applications including contact information for three references to igm@jhu.edu. Applications from underrepresented groups are encouraged. Review of applications will commence immediately and continue until the positions are filled.

The National Institutes of Health recently granted a Clinical and Translational Science Award to Northwestern. The grant is administered through the NU clinical and Translational Science (NUVATS) Institute. An important component of the award is a program to promote the career development of junior faculty members who are engaged in research related to human health and disease. A part of that program provides scholarships to support protected time for research and training for selected faculty, along with some support for related expenses. We would like to invite faculty applying for this program. If you think your work might be eligible but are uncertain, please feel free to contact Richard Pope at rmp158@northwestern.edu or <http://www.nucats.northwestern.edu/centers/cecd/>

The Materials Research Science and Engineering Center will again offer an academic-year paid research internship. The Undergraduate Research Internship is open to undergraduates

majoring in a science or engineering discipline who are US citizens or permanent residents. The internship pays \$12/hour for 10 hours a week for all three academic quarters. For more information, please visit the program website:

http://www.mrsec.northwestern.edu/content/educational_programs/uri.htm If you have any questions, please contact Klara Mueggenburg at mrc@northwestern.edu, 847-491-3606. Please, forward this information to chemistry undergraduates. The application deadline is September 30.

Call for Alfred P. Sloan Research Foundation Fellowships- Nominations are due by September 15, 2008, for awards to begin in September 2009. Nominations are reviewed and candidates selected by a Program Committee of three distinguished scientists in each eligible field. Candidates selected for awards are notified in February. The Program Committee reviews more than 600 nominations each year to arrive at a final selection of 118 fellows. Additional information about areas of interest, grants and projects can be found on the Sloan Foundation web site: www.sloan.org Nomination forms and supporting letters should be sent to: Sloan Research Fellowships

Alfred P. Sloan Foundation
630 Fifth Avenue – Suite 2550
New York, New York 10111-0242

ACS Women Chemists Committee Travel Awards – Year 2009 The Eli Lilly & Company is sponsoring a program to provide funding for undergraduates, graduate, and postdoctoral women chemists to travel to scientific meetings in 2009 to present the results of their research. Grants may be applied only for registration, travel, and accommodations, and are restricted to travel to meetings within the United States. Grant funds are limited, but there are some funds set aside for undergraduates. Only U.S. citizens and permanent residents are eligible. (1) any applicant who will be making her first presentation (regardless of format) at a national or major meeting, (2) graduate or postdoctoral applicants who have not presented at a national or major meeting since leaving undergraduate school. Women who have received a prior award under this program are ineligible.

The deadline dates for receipt of applications are:

- **September 15, 2008**
- **February 15, 2009**

Applications must be received in advance of these review deadlines and a minimum of 6 weeks prior to the meeting date.

In order to apply for the award, please submit the following:

1. A resume or C.V. (include permanent address).
2. A completed official application form that you must download from www.acs.org/diversity (if you need an acrobat reader, go to <http://www.adobe.com/store/products/reader.html>). The application form is also available from the Department of Diversity Programs at the American Chemical Society. See address below or call 800/277-5558, ext 4524; e-mail diversity@acs.org
3. An abstract of the work to be presented, using the official ACS meeting abstract form (or printed copy of an online abstract submission). An abstract form can be located at www.acs.org/meetings . Click onto “Abstract Information” and then “ACS Standard Abstract Form in Hard Copy.” If the abstract is not on the official meeting abstract form, a reason must be stated on the application form. You will also need to submit

your paper through the meeting registration process independent of this Travel Award application.

4. A letter detailing the reasons you want this award (both scientific and financial), and specifying whether you have made a previous presentation at a national or major meeting.
5. A letter from your advisor confirming your participation in the meeting at which you will be making your presentation, commenting on your technical ability and potential, and listing any other travel support that would be available from the department of research grants.

Awards will be made based on scientific merit and financial need, with the WCC Attracting Subcommittee serving as the selection jury. Through this program, the Eli Lilly & Company continues to increase the participation of women in the chemical sciences.

Please send your application to:

Ms Victoria Fuentes
American Chemical Society
1155 16th St., NW, Room O-1110
Washington, DC 20036
Fax: 202-776-8003

FutureCoat and Professional Development Program Attached you will find information about student posters (application form and poster guide) and the outline for the professional development program is scheduled for **Tuesday, October 14 from 1:00 - 4:00 pm.**

The student development program is a three-hour session given by Sanford Rose Associates, an executive recruiting firm that specializes in job placement for individuals in the chemistry and coatings area.

Students presenting posters will have comp registration to FutureCoat and the professional development program (course materials included). The attached application form will serve as their registration form. They will not be able to register for poster sessions through the FSCT website. The deadline to have poster information included in the registration brochure is next Friday, June 27. Poster session applications will continue to be accepted through September 1st.