

**2013 WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS**  
**October 7, 2013**

Monday, October 7:                *Special Organic Seminar*  
Keiji Maruoka  
2-3 pm, Ryan 4003

*Special Physical Seminar*  
Garnet Chan  
4-5 pm, Ryan 4003

Tuesday, October 8:            *Faculty Seminar*  
SonBinh Nguyen  
12-1 pm, Tech K140

Friday, October 11:            *Basolo Lecture*  
Marcetta Darensbourg  
4:15-5:45 pm, Tech LR3

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

**BIP**

Special BIP from 1-2 pm on Friday, October 11.

**Arrivals**

Justin Massing joined the Meade group.  
Akitake Nakamura joined the Stoddart group.  
Dongxu Shu joined the Marks group.

**Events**

**2013 International Institute for Nanotechnology (IIN) Symposium**

Thursday, October 10, 2013  
Hilton Orrington Hotel: 1710 Orrington Avenue, Evanston, IL  
8:00 am to 6:00 pm

Featuring the following distinguished speakers: Mildred Dresselhaus, Massachusetts Institute of Technology, Richard Kaner, University of California, Los Angeles, Hongkun Park, Harvard University, David Tirrell, California Institute of Technology, James Tour, Rice University

New this year:

World Wide Nanotechnology Town Hall  
*Climate, Energy and Innovation* with Daniel Schrag, Harvard University and moderated by Mark Ratner

Attendance at the 2013 IIN Symposium is free of charge due to the generous support from our sponsors, but space is limited and reservations are required.

[Please register NOW to ensure your seat!](#)

**Opportunities**

**The Department of Chemical Engineering at Stanford University** is seeking applicants for a tenure-track faculty position at the junior level (Assistant or untenured Associate Professor). Applicants are expected to have

earned a Ph.D. degree in chemical engineering or related disciplines. We will consider applicants knowledgeable in the general area of chemical engineering science. There are several broad areas of interest, including hydrocarbon chemistry, surface reactivity and catalysis, fuel cells, environmental or atmospheric studies, molecular transport processes and mechanics, soft materials physics and chemistry, computation and simulation, biochemical and biomolecular engineering, and nanomaterials processing. In general, we give higher priority to the overall originality and promise of the candidate's work rather than to the sub-area of specialization. Researchers with interests in the applied life sciences, energy sciences, and environmental sciences are particularly encouraged to apply. The successful candidate will be expected to teach at the graduate and undergraduate level, to develop advanced graduate courses in a research specialty, as well as to develop a world-class research program with an emphasis on the fundamental physical, chemical, or biological aspects of chemical engineering science. Applicants should be seeking a stimulating interdisciplinary environment in which to pursue teaching and research. We anticipate that the faculty members will contribute to and develop leadership roles and interactions among faculty not only in Chemical Engineering, but also Electrical, Mechanical, Civil and Environmental, and Material Science and Engineering in the School of Engineering; in Physics, Chemistry, and Biology in the School of Humanities and Sciences; in the departments and programs in the School of Medicine, as well as Bioengineering located in the Schools of Engineering and Medicine, and at the Stanford Synchrotron Radiation Laboratory.

Applicants must submit online their curriculum vitae (including research accomplishments, teaching experience, and publications) a transcript of doctoral graduate study, a detailed research and teaching plan, and three references (name and email address). Applications are due by December 1, 2013, but we will continue to accept applications until the position is filled. Please apply online at <http://cheme.stanford.edu/>

**The Department of Chemistry at the University of Wyoming** invites applications for a tenure-track assistant professor position in inorganic chemistry. A Ph.D. in chemistry or a related field is required; postdoctoral experience is desirable. Applicants with research interests in energy related fields are especially encouraged to apply. Excellence in research, teaching, and advising at both the graduate and undergraduate levels will be expected of a successful candidate. Teaching loads are commensurate with the expectation of a strong, externally funded research program. For additional information, see our web site at <http://www.uwyo.edu/chemistry/> or e-mail to [chemistry@uwyo.edu](mailto:chemistry@uwyo.edu). Applicants should send a CV, research proposals with estimate of start-up costs, a brief statement of teaching interests and arrange for three letters of recommendation to be sent to: **Inorganic Faculty Search Committee, Department of Chemistry, Dept. 3838, 1000 E. University Ave., University of Wyoming, Laramie, WY 82071.** Review of applications will begin October 28th and continue until suitable candidates are identified.

**The Department of Chemistry and Chemical Biology at Cornell University** is searching for tenure-track faculty members at the Assistant Professor level. Outstanding candidates with research interests in theoretical chemistry are encouraged to apply. A Ph.D. degree is required, and postdoctoral experience is preferred. The cover letter should also specify the applicant's area of secondary interest (analytical, biological, inorganic, materials, organic, and physical). **The deadline for submitting complete applications (including reference letters) is October 15, 2013.** Please direct questions to: [chemfacsearch@cornell.edu](mailto:chemfacsearch@cornell.edu).

**The Department of Chemistry at the University of North Texas** invites applications for a faculty position in Physical Chemistry at the Assistant Professor level. A Ph.D. in chemistry or a related field is required, and post-doctoral experience is preferred. The candidate's research program may be in any area of Physical Chemistry, but preference will be given to candidates whose research complements that of current faculty in the department. For additional information and to apply visit our website at <http://facultyjobs.unt.edu>. Review of applications will begin immediately and continue until the position is filled. UNT is an AA/ADA/EOE institution.

**The Department of Chemistry at The University of Chicago** invites applications from outstanding individuals for the position of Assistant Professor of Chemistry. This search is in the areas broadly defined as inorganic, organic, physical, materials chemistry, and chemical biology/biophysical chemistry. Applicants must apply online to the University of Chicago Academic Career website. Inorganic chemists apply to <http://tinyurl.com/pjhoru2>, Organic <http://tinyurl.com/l89fdyd>, Physical <http://tinyurl.com/lfzjz3z>, Materials Chemistry <http://tinyurl.com/nuykp49>, Chemical Biology/Biophysical Chemistry <http://tinyurl.com/pk3meza>.

Please apply to one search only. Applicants must upload a cover letter, a curriculum vitae with a list of publications, a succinct outline of research plans and a one page teaching statement. At the time of hire the successful candidate must have a Ph.D. in Chemistry or a related field. In addition, three reference letters are required. Review of completed applications will begin October 01, 2013, and will continue until all available positions are filled.

**The Department of Chemistry & Biochemistry in the College of Arts and Sciences at Ohio State University** seeks to fill a tenure-track faculty position at the Assistant Professor level in **Analytical**

**Characterization Techniques** to begin Autumn 2014. Candidates with research interests in the development and application of state-of-the-art characterization techniques that can advance Ohio State's commitment in materials/measurement science are encouraged to apply. Demonstrated excellence in innovative research and a strong commitment to teaching are essential. Priority will be given to those candidates whose research interests complement those of existing faculty. Candidates should submit a curriculum vitae including publication list, a summary of past research accomplishments, a statement of teaching and research interests and arrange to have three letters of recommendation submitted. **Applications for this position should be posted on <http://academicjobsonline.org>.** For further information, contact: Analytical Chemistry Faculty Search Committee, c/o Susan Krumm, [skrumm@chemistry.ohio-state.edu](mailto:skrumm@chemistry.ohio-state.edu). Application review begins October 1, 2013.

**The Department of Chemistry & Biochemistry in the College of Arts and Sciences at Ohio State University** seeks to fill a tenure-track faculty position at the assistant professor level in the **Design and**

**Chemical Synthesis of Biologically Active Compounds** to begin Autumn 2014. Candidates with research interests in the design, synthesis, and collaborative deployment of biologically active organic compounds are encouraged to apply. Demonstrated excellence in innovative research and a strong commitment to teaching are essential. Priority will be given to those candidates whose research interests complement those of existing faculty. Candidates should submit a curriculum vitae including publication list, a summary of past research accomplishments, a statement of teaching and research interests, and arrange to have three letters of recommendation submitted. **Applications for this position should be posted to this position on <http://academicjobsonline.org/>.** For further information, contact: Chemical Synthesis Faculty Search Committee, c/o Susan Krumm, [skrumm@chemistry.ohio-state.edu](mailto:skrumm@chemistry.ohio-state.edu). Application review begins October 1, 2013.

**The Department of Chemistry and Biochemistry at Ohio University** invites applications for a tenured or tenure-track faculty position at the Assistant/Associate/Full Professor level, with research interests in the area of Forensic/Analytical chemistry. Please see <http://www.ohio.edu/chemistry/forensic/> for information about our Forensic Chemistry program. The candidate must have a Ph.D. in forensic/analytical chemistry and significant postdoctoral experience. Applicants must apply online at <http://www.ohiouniversityjobs.com/postings/7411> and upload a cover letter, curriculum vitae, description of research interests, and statement of teaching philosophy. Each applicant must arrange to have at least three letters of recommendation submitted to the above website. Only online applications will be accepted. The review of applications will begin October 1st, 2013, and continue until the position is filled. For full consideration, please apply by October 1, 2013.

**The Department of Chemistry and Biochemistry, the Department of Atmospheric and Oceanic Sciences, and the Cooperative Institute for Research in Environmental Sciences (CIRES) at the University of Colorado Boulder** invite applications for a tenure-track faculty position at the Assistant Professor level in

Atmospheric/Environmental Chemistry. The successful candidate will teach undergraduate and graduate courses in his/her area of expertise and is expected to develop a vigorous, externally-funded research program. The research area is open within Atmospheric and Environmental Chemistry. Sub-disciplines of particular interest include retrieval and analysis of chemical measurements from satellite instruments, box / regional / global chemical transport modeling, chemistry in fog and cloud droplets, and application of isotope tracers. A PhD is required and postdoctoral experience is preferred. Review of applications will begin November 18, 2013, and applications will be accepted until the position is filled. Applicants should submit a cover letter, curriculum vitae including a list of publications, PDFs of 3+ first author publications, descriptions of proposed research (up to about five pages) and teaching (up to about two pages), and arrange to have four letters of recommendation submitted. The University of Colorado is an Equal Opportunity Employer committed to building a diverse workforce. We encourage applications from women, racial and ethnic minorities, individuals with disabilities and veterans. Alternative formats of this ad can be provided upon request for individuals with disabilities by contacting the ADA Coordinator at [hr-ada@colorado.edu](mailto:hr-ada@colorado.edu). Applications are accepted electronically at the Jobs at

CU Website: <https://www.jobsatcu.com/postings/71231> Review of applications will begin on November 18, 2013. Applications will be accepted until the position is filled.

**The Chemistry Department at Wichita State University** invites applicants with expertise in **mass spectrometry** for a tenure-eligible position at the assistant professor level. Successful candidates will be expected to establish a vigorous externally funded research program centered on mass spectrometry and demonstrate a commitment to excellence in teaching and directing research involving undergraduate, MS, and PhD level students. Successful candidates will be expected to teach graduate courses in their area of expertise and to teach General Chemistry and upper-division undergraduate courses, with a preference for candidates who can contribute to undergraduate courses in Analytical Chemistry and Instrumental Methods. The successful candidate will have the opportunity, if appropriate, to interact and collaborate with university-wide initiatives in bioengineering, aerospace engineering, and climate change and renewable energy. A PhD or equivalent degree in chemistry or related field, postdoctoral experience, a strong record of scholarly achievement and experience in working with diverse populations are required. A generous package of start-up funds, state of the art research facilities, and competitive salary are available. Review of applications will begin October 20, 2013 and will continue until the position is filled. The following application materials should be submitted online at <https://jobs.wichita.edu>: letter of application, curriculum vitae including a list of publications, and a statement of teaching philosophy. In addition letters of recommendation from 3 individuals familiar with the applicant's professional accomplishments and qualifications and a description of research plans with estimated start-up costs should be sent to **Search Committee, Department of Chemistry, Wichita State University, Wichita, KS 67260-0051**, or e-mailed to [chemistry@wichita.edu](mailto:chemistry@wichita.edu). Additional information on this position, along with a full list of required and preferred qualifications is available at [www.wichita.edu/chemistry](http://www.wichita.edu/chemistry). Offers of employment are contingent upon completion of a satisfactory criminal background check as required by Kansas Board of Regents policy. *Wichita State University is an affirmative action/equal opportunity employer dedicated to creating a diverse community. Individuals from underrepresented groups are encouraged to apply.*

**Millikin University** invites applications for a full-time, tenure-track position of Assistant Professor of Analytical Chemistry beginning August 2014. A Ph.D. in analytical chemistry or closely related area is required. Teaching responsibilities will include analytical chemistry, instrumental analysis, and general chemistry, and may include other courses in the major or the university studies program. The individual will be expected to develop a promising experimental research program that is suitable for undergraduate students and to engage in university service. The chemistry department is ACS-approved ([www.millikin.edu/chemistry](http://www.millikin.edu/chemistry)). Candidates should email a letter of interest, curriculum vitae, statement of teaching philosophy, outline of research program, copies of undergraduate and graduate transcripts, and contact information of three references to Dr. George Bennett, Chemistry Department Chair, in care of Lisa Casey ([lcasey@millikin.edu](mailto:lcasey@millikin.edu)). Review of applications will begin Oct. 22 and continue until the position is filled. Offer of employment is contingent upon successful completion of background check. Millikin University is an equal opportunity employer. Women and minorities are encouraged to apply.

**Franklin College** invites applications for a full time tenure-track Assistant Professor position from candidates who excel in teaching General Chemistry and with a demonstrated ability to teach Physical Chemistry (with a focus on Thermodynamics and Kinetics), and either advanced Inorganic and/or any other specialty elective courses. The successful candidate will teach both lectures and labs and will be expected to involve students in undergraduate research. The position, which begins in August 2014, requires an emphasis on teaching and commitment to liberal arts education. Demonstrated interest or prior experience in undergraduate teaching and Ph.D. required (must be completed by August 1, 2014). Applications received by November 15, 2013 will be given full consideration. Send a letter of interest, a statement of teaching and undergraduate research philosophy, a CV, graduate and undergraduate transcripts, a sample of teaching evaluations, and have three letters of recommendation sent to: **Employee Resources Franklin College 101 Branigin Blvd. Franklin, IN 46131** Or by e-mail: [employeeresources@franklincollege.edu](mailto:employeeresources@franklincollege.edu)

**The Department of Chemistry at the University of Dayton is** seeking two organic chemistry faculty at the Assistant Professor rank. Anyone interested should contact me and apply online.

David W. Johnson  
Department of Chemistry

University of Dayton  
Dayton, OH 45469-2357

**THE DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY AT THE UNIVERSITY OF MARYLAND, BALTIMORE COUNTY (UMBC)**

invites applications for a full-time, tenured/ tenure-track faculty position at the Assistant or Associate Professor level. Applicants are expected to establish a vigorous, externally funded, research program in any sub-discipline of an area broadly defined as analytical chemistry (e.g., bio-analytical, materials, energy, etc.). The successful applicant should have a PhD and postdoctoral experience and will be expected to teach at both the undergraduate and graduate (PhD and MS) levels, with particular emphasis on analytical and instrumental chemistry courses. Applications from women, minorities, individuals with disabilities and other traditionally under-represented groups in the sciences are especially encouraged. The appointment will commence August 2014. The Department ([www.umbc.edu/chem](http://www.umbc.edu/chem)) is a highly cross-disciplinary and interactive group of faculty, post-doctoral fellows, and students engaged in cutting edge research, working in state-of-the-art laboratory facilities in a recently renovated building. UMBC is strategically situated on a suburban campus in the intellectually and culturally vibrant Baltimore-Washington corridor, providing unique opportunities afforded by its diversity, intermediate size and world-class infrastructure.

**To Apply:** Applicants should submit curriculum vitae, description of research plans, and statement of teaching philosophy as well as arrange for three letters of recommendation to be sent to: Chair, Faculty Search Committee Department of Chemistry and Biochemistry University of Maryland, Baltimore County 1000 Hilltop Circle Baltimore, MD 21250 Electronic submissions can also be made to [chemsearch@umbc.edu](mailto:chemsearch@umbc.edu). UMBC is an Equal Opportunity/Affirmative Action Employer. Review of applications will begin November 15, 2013 and continue until the position is filled.

**The Department of Chemistry at Grand Valley State University** invites applications for an Assistant Professor of Chemistry (Analytical), Tenure Track, Starting Aug, 2014. The position requires a strong commitment to excellence in undergraduate teaching and research. A doctoral degree is preferred. Candidates who have nearly finished their doctoral degree (ABD) may be considered for initial hire at the Instructor level with completion required by August 4, 2015. Preference will be given to candidates whose scholarship complements existing expertise in the department. The Department values candidates who demonstrate an ability to work in a collaborative environment with a diverse population of colleagues and students. Responsibilities include teaching in all areas of the analytical curriculum (majors courses, service courses, lectures, labs) as well as general chemistry and other courses in the area of expertise. Tenure-track faculty are expected to maintain an active scholarship program that includes mentoring undergraduate research students, and are also expected to contribute service to the Department, College, University, and/or community. Complete requirements for tenure track faculty are detailed in the University Faculty Handbook and the Departmental Performance Expectations document, available upon request. The salary will be commensurate with experience and qualifications. GVSU salaries are competitive with excellent benefits. Limited research start-up funding is available from the College. The Analytical Faculty is an integral part of the Chemistry Department in the College of Liberal Arts and Sciences. See our web page at [gvsu.edu/chem](http://gvsu.edu/chem) for more information. Applications must be submitted on-line at [www.gvsujobs.org](http://www.gvsujobs.org). After completing an application form, the on-line system will require each applicant to attach the following documents: (*Microsoft Word* or *Adobe Acrobat* formats)

- 1) An application cover letter
- 2) A vita
- 3) A statement of teaching philosophy
- 4) A *brief* summary of proposed scholarship activities, including research projects appropriate for undergraduate students. Include a statement of facilities, equipment, and instrumentation requirements (detailed equipment budgets are not necessary with the initial application).

Applicants must also arrange for three references to submit letters of recommendation. Reference letters can be sent by e-mail to [chmdept@gvsu.edu](mailto:chmdept@gvsu.edu) (use "Analytical Reference Letter" as the subject line) or by regular mail to *Analytical Search Committee, Chemistry Department, 312 Padnos Hall, Grand Valley State University, Allendale, MI 49401.*

**Date for Reviewing Applications:** Application review will begin October 18, 2013 and will continue until the position is filled.

**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: 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](http://www.nationalacademies.org/rap).