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**WEEKLY BULLETIN**  
**DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY**  
**EVANSTON, ILLINOIS 60208-3113**  
**July 20, 2009**  
**CALENDAR FOR THE COMING WEEK**

[northwestern.edu/resources/](http://northwestern.edu/resources/)

### **Save the Date**

August 11 & 12, 2009 – The Bender Lecture, **Professor Steve Buchwald**, MIT, Tech L211, Hosted by Professor Karl Scheidt

August 17, 2009 - Save the Date! Chemistry Alumni and Friends  
Please Join us for a Reception at  
**Fall National ACS Meeting in Washington D.C.** on  
Monday, August 17, 2009 from 5:30 - 7:30 p.m. at  
The Willard Intercontinental Hotel for a reception

August 24, 25 & 26, 2009 – The Dole Lecture – **Professor Wolfgang Lubitz**, Max-Planck-Institute Fuer Bioorganische Chemie, Tech L211, Hosted by Professor Brian Hoffman

### **Opportunities**

**Two full-time instructor positions in Chemistry Department at Northeastern Illinois University** starting for the 2009 fall semester and the 2010 spring semester. One position requires a Ph.D. in Organic Chemistry. Candidates for the other position must have Ph.D. in chemistry and demonstrate strong commitment to teach General Chemistry and other chemistry courses as required. Applicants should submit a cover letter, curricular vitae, philosophy of teaching and the names and addresses of three references, should be sent to [s-albazi@neiu.edu](mailto:s-albazi@neiu.edu) (electronic submission is preferred) or:

Dr. Sargon J. Albazi  
Professor of Chemistry  
Northeastern Illinois University  
5500 N. St. Louis Ave  
Chicago, Il 60625

**Postdoctoral Research Associate Position at University of North Dakota** The research will focus on development of novel nanomaterials for various bioanalyses. Candidates with a background in nanomaterial synthesis, biomolecule detection and instrumental analysis are encouraged to apply. The successful applicant is expected to be capable of performing research work and writing manuscripts. The position involves the following major duties: 1) Synthesis and characterization of novel nanomaterials; 2) application of the nanomaterials in various bioanalyses. 3) Management and maintenance of instruments in the nanotechnology research laboratory; 4) Writing research manuscripts for publication; and 5) assisting research advisor in supervising graduate and undergraduate in their research activities. The position is available in the fall of 2009. The initial appointment will be for one year with the possibility of renewal. Please fill an applicant control card at <http://www.und.edu/dept/aao/apcontrolcard.htm>

**Two Postdoctoral Positions available at Kansas State University** immediately for studies of ferroelastic and ferroelectric domain switching, crystal growth, crystallography, and molecular recognition phenomena in organic inclusion compounds and related materials.

**One position** requires a strong background in SOLID-STATE NMR spectroscopy; the researcher would be responsible for the operation and maintenance of a 300 MHz NMR instrument dedicated to solid-state experiments such as MAS NMR, <sup>2</sup>H NMR, and single crystal NMR. The ideal applicant would have extensive experience in a variety of solid-state NMR experiments as well as experience with construction and maintenance of NMR equipment. Experience and interest in organic synthesis of labeled compounds would also be very helpful.

**The second position** requires a strong background in SOLID-STATE ORGANIC CHEMISTRY; the project will focus on cooperative phenomena and domain switching in ferroelastic and ferroelectric materials. The ideal applicant would have extensive experience in the area of crystallography, crystal growth and organic synthesis, or some combination thereof. Specific expertise with crystallography of unconventional materials (including disordered, incommensurate or modulated crystals) and with unconventional crystallographic experiments (including X-ray topography and in situ experiments with stresses or fields) is preferred, as is experience with spectroscopy or microscopy of crystalline materials.

In each case, the successful applicant will be exposed to a wide variety of techniques in the area of solid-state organic chemistry. Duration of each position would be for one year with the possibility of extension to two years. Salary will be commensurate with experience and background. Review of applications will commence August 1<sup>st</sup>. Along with a cover letter that specifies the position or positions for which you are applying, send CV and the names and addresses of three references to:

Prof. Mark D. Hollingsworth  
Chemistry Dept., 213 CBC Building  
Kansas State University, Manhattan, KS 66506-0401  
ph.: 785-532-2727, fax: 785-532-6666  
mdholl@ksu.edu.

**Two Postdoctoral positions available in the Winkler Lab at the University of Pennsylvania.**

Start date is flexible, the ideal candidate would be available to start as soon as possible. New projects are currently underway in several different area, including 1) The development of Hedgehog signaling inhibitors based on the naturally occurring alkaloid cyclopamine; 2) the design and synthesis of novel chiral clefts and helical structures based on the naturally occurring alkaloid calycanthine; 3) the development of protein kinase BRAF inhibitors based on X-ray crystallographic data obtained in the Marmorstein Laboratory at the Wistar Institute at Penn; and 4) the development of new drugs for tuberculosis in collaboration with the Rubin Laboratory at the University of Pennsylvania School of Medicine. If interested please email Jeffrey Winkler [winkler@sas.upenn.edu](mailto:winkler@sas.upenn.edu)

**The Thayer School of Engineering at Dartmouth** seeks to hire a faculty member who can contribute to a distinctive research and education program addressing technology responses to societal energy challenges. The successful candidate will have a doctorate in engineering or closely related field, will show promise of leading an externally-funded research program targeting transformational advances in energy conversion and or utilization, and will be a gifted teacher with motivation and expertise that complements the Thayer School's interdisciplinary curriculum. All fields of engineering will be considered, including but not limited to materials, chemicals, electrical, mechanical and thermal/ fluids. A hire at the Assistant Professor rank is anticipated, although outstanding candidates at the Associate Professor level will be considered. Review of applications will begin immediately, and will continue until position is filled with interview visit is anticipated in the fall. A complete CV, research and teaching statements and contact information for three references should be sent to: Professor Lee R. Lynd, Energy Search Committee Chair, at Thayer School of Engineering at Dartmouth College, 8000 Cummings Hall, Hanover NH 03755-800 or by email at [engineering.faculty.search@dartmouth.edu](mailto:engineering.faculty.search@dartmouth.edu)

**Department of Chemistry, Northwestern University** has an immediate opening for a postdoctoral position in organic semiconducting materials synthesis for printed electronics. This one-year appointment may be continued beyond the first year depending on funding and performance. The successful applicant will be involved in the design and synthesis of pi-conjugated small-molecules and polymers based on heteroaromatic building blocks, their characterization, and implementation in printed transistors and circuits. For additional information, please contact Dr. Antonio Facchetti at [a-facchetti@northwestern.edu](mailto:a-facchetti@northwestern.edu).

**The Department of Chemical Engineering National Tsing Hua University, Taiwan** are inviting applications for an assistant Professor. The candidates must have a Ph.D. degree in an engineering discipline (chemical, biochemical, biomedical, material science engineering, etc.) or a science-related field ( chemistry, life science, etc.) and an outstanding record of accomplishments in research. Applicants with research expertise in nanotechnology, biotechnology, energy or etc.) or a science-related field (chemistry, life science, etc.) and an outstanding record of accomplishments in research. Applicants with research expertise in nanotechnology, biotechnology, energy or optoelectronics (particularly with polymer synthesis, molecular simulation, electrochemistry or process engineering background) are all welcome. Application materials (including curriculum vitae, copies of diplomas, copies of undergraduate and graduate transcripts, publication list (with SCI Impact Factor), teaching and research plans, and the names, mail and e-emails addresses, phone numbers of three referees and the attached

CV at-a-glance (available on our department website) should be sent to: Professor Hsing-Wen Sung([hwsung@che.nthu.edu.tw](mailto:hwsung@che.nthu.edu.tw)), Coordinator, Faculty Search Committee, Department of Chemical Engineering, National Tsing-Hua University, Hsin-Chu 30013, TAIWAN, by September 25, 2009

**Post-doctoral & Graduate students opportunities** are available from the newly created Energy Frontier Research Center (EFRC) Materials Science of Actinides: Letter of application for post-doctoral positions may be submitted to Director, EFRC, electronically to [ndefrc@gmail.com](mailto:ndefrc@gmail.com).

**Eastern Illinois University Charleston, Illinois** has a nine-month temporary faculty position in the Department of Chemistry. The responsibilities would include teaching lecture and laboratory courses in biochemistry, general chemistry, and general education chemistry. Submit letter of application; curriculum vitae; transcripts (undergraduate and graduate; unofficial acceptable at this time); and names, addresses, and phone numbers of at least three references to Dr. Douglas G. Klarup, Department of chemistry, Eastern Illinois University, Charleston, IL 61920 (phone (217-581-3322) Electronic submissions ([dgklarup@eiu.edu](mailto:dgklarup@eiu.edu)) are acceptable.

**Washington University in St Louis, Department of Chemistry** is seeking candidates for the position of Chair of the Department. This is an outstanding opportunity for a visionary leader to strengthen and create research and training programs in Chemistry and to foster interdisciplinary programs with other departments and schools at Washington University, including the school of Medicine and the schools of Engineering. Significant growth of the Chemistry faculty is anticipated. If you would like additional information ([tome@bicchem.wustl.edu](mailto:tome@bicchem.wustl.edu); (314-747-8893) We anticipate filling this position before the end of 2009.

**Curt Borchers passed away June 23<sup>rd</sup> 2009 in Green Bay, Wisconsin at St Vincent Hospital surrounded by his family.** In earlier years Curt was a great administrator, facilitator, doer, and friend in the Chemistry Department. He retired from Northwestern in 1986 as Assistant Dean of WCAS. There will be an open house on August 17, 2009 at his home to celebrate his life. Please send any memorial gifts to Altrusa House, 1116 E. Mason Street, Green Bay, WI 54301