

# YALE UNIVERSITY

## DEPARTMENT OF CHEMISTRY

### THE CHEMISTRY CHRONICLE

October 23, 2015

#### **ANNOUNCEMENTS**

For further information on any of the items included here, or if you would like to contribute information to the next bulletin, please send details to [chemistry.adminoffices@yale.edu](mailto:chemistry.adminoffices@yale.edu).

The **International Conference on Environmental Science and Technology 2016** sponsored by the American Academy of Sciences will be held on June 6-10, 2016 in Houston, Texas. The conference will provide a multidisciplinary platform for environmental scientists, engineers, management professionals and government regulators to discuss the latest developments in environmental research and applications. Further information can be found at <http://www.AASci.org/conference/env/2016/index.html>.

The **German Academic Exchange Service (DAAD)** will offer three internship programs for summer 2016: RISE (Research Internships in Science and Engineering) Germany, RISE professional and RISE worldwide ([www.daad.de/rise-weltweit/en](http://www.daad.de/rise-weltweit/en)). To learn more about RISE professional, visit: [www.daad.de/rise-pro/en](http://www.daad.de/rise-pro/en) or email: [rise-pro@daad.de](mailto:rise-pro@daad.de). Information on RISE Germany can be found at: [www.daad.de/rise/en](http://www.daad.de/rise/en) or email: [rise@daad.de](mailto:rise@daad.de)

The Fourth International Organic Chemistry Competition (OC4) will be held on May 20, 2016 in Beirut, Lebanon and is organized by the American University of Beirut (AUB). The competition is open to all undergraduate students who have completed Organic I and Organic II courses. Teams of two can register for free at: <http://bit.ly/InternationalOC4>. Complementary lodging for two nights (May 19&20) at Lancaster Plaza Hotel will be offered for the 1<sup>st</sup> 25 international teams that register. For more info, contact Prof. Bilal Kaafarani at: [bilal.kaafarani@aub.edu.lb](mailto:bilal.kaafarani@aub.edu.lb) AUB's website: [www.aub.edu.lb/oc](http://www.aub.edu.lb/oc)

#### **The ACS Women Chemists Committee (WCC) invites applications for the new WCC/Merck Research Award.**

Up to eight women will be selected to present their research at an awards symposium held during the 2016 Fall ACS national meeting. Awardees will receive a \$1,500, present their research and be recognized at the Awards Symposium Luncheon and the WCC Luncheon. Eligibility: 3rd and 4th year female graduate students with a research focus in one or more of the following areas: Organic, Medicinal, Analytical, Chemical Biology, Computational or Structural chemistry and related disciplines of focus. Open to U.S. citizens or students attending a graduate program in the U.S. Deadline is December 1, 2015. Apply online or request a hard copy from [diversity@acs.org](mailto:diversity@acs.org).

Graduate students: please recall that you are eligible for a Conference Travel Fellowship, where you receive up to \$1000 toward travel/registration to a conference! Details at <http://gsa.yale.edu/conference-travel-fellowship>.

#### **Visa Processing:**

OISS is responsible for signing the DS-2019 form. The PI is not allowed to sign this form and does not have authorization to do so. There is a new signature requirement, but it does not apply to the DS-2019 form. The new requirement only applies to a few people at Yale. If the person holds the title "Visiting Student in Research" and the DS-2019 form shows "Student Intern" in section 4, then the new information applies, but not to the DS-2019 form. Student interns will have an additional Immigration document, a DS-7002 form. OISS issues the form and signs it. The new requirement is that the PI must sign the DS-7002 form before it is sent to the Student Intern as he/she will need the original OISS and original PI signature on this form before using it to apply for the visa.

#### **Save the Date:**

- **Chemistry's annual Holiday Luncheon** will take place on December 11, 2015 in the SCL Historic Corridor first floor.
- **Chemistry's Visiting Days for Admitted Graduate Students:** Thursday, March 10<sup>th</sup> and Friday, 11<sup>th</sup>, 2016. Secondary visiting day is planned for Friday, April 1, 2016.

**Science on Saturdays** hosted by Kurt Zilm – Fun science lectures for ‘kids’ of all ages will take place in SCL 110 from 10:00 a.m. to noon on November 14. <http://onhsa.yale.edu/science-saturdays>

## **SEMINARS**

<http://www.chem.yale.edu/graduate/seminars.html>

**Yale Climate & Energy Institute** (<http://climate.yale.edu/>) Interdisciplinary Speakers Series on Climate and Energy: Five pairs of talks on climate and energy featuring YCEI postdoctoral fellows, their mentors and colleagues. The first pair of talks is October 26 and 28 and promotes the work of Maria Mariano-Juste (who works with Andre Taylor) and Nilay Hazari. An article in [technology.org](http://technology.org) mentions Nilay (<http://bit.ly/1RkqDbI>). All talks in Kline Geology Lab, 210 Whitney Avenue.

**Friday, October 23.** Chemistry Research Day: A Celebration of Chemical Research. Jiangyong Jia, Brookhaven National Laboratory. “The Chemistry of the Quark-Gluon Plasma – A Primordial Liquid that Existed in the Very Early Universe” Stony Brook Student Activities Center. Further information can be found at [www.stonybrook.edu/chemistry](http://www.stonybrook.edu/chemistry).

**Tuesday, October 27.** Lecture in Chemical Biology: “Synthetic Antibodies for RNA Crystallization” Joseph Piccirilli, Department of Chemistry, University of Chicago. Room 218, West Campus Conference Center, 1:30 pm.

**Thursday, October 29.** Lecture in Organic Chemistry: “Engineering Proteins for Selective Catalysis” Jared Lewis, Chemistry Department, University of Chicago. Room 110, Sterling Chemistry Laboratory, 4:00 pm.

**Monday, November 2.** Lecture in Inorganic Chemistry: “Mimicking Enzymatic Function in Molecular Catalysts for Energy Transformations” Wendy Shaw, Pacific Northwestern National Laboratory. Room 111, Sterling Chemistry Laboratory, 4:30 pm.

**Tuesday, November 3.** Lecture in Biophysical Chemistry: “TBD” Karen Fleming, Johns Hopkins University. Room 160 Sterling Chemistry Laboratory, 4:00 pm.

**Wednesday, November 4.** Energy Sciences Institute Talks at West Campus: “Field and Surface Directed Self-Assembly in Nanostructured Soft-Materials – Approaches for Developing Functional Materials” Chinedum Osuji, Department of Chemical & Environmental Engineering, Yale University. West Campus Conference Center Auditorium (800 West Campus Drive), 3:00 pm.

## **SYMPOSIA**

The Tully Retirement Symposium is scheduled to take place at Yale's Sterling Chemistry Laboratory on **Saturday, November 7, 2015**. Participants include:

- Professor Joel M. Bowman Emory University
- Professor Louis E. Brus Columbia University
- Professor Sharon Hammes-Schiffer University of Illinois Urbana Champagne
- Professor Martin P. Head-Gordon University of California, Berkeley
- Professor William H. Miller University of California, Berkeley
- Professor Krishnan Raghavachari Indiana University
- Professor John D. Weeks University of Maryland

## **Travel and Entertainment Policies:**

### **Out of Pocket Reimbursements:**

- A reimbursement submitted between 120 and 366 days after the expense is incurred may only be reimbursed as taxable income. Gross-up for taxes incurred will not be allowed.
- No reimbursement submitted more than 366 days after the date the expense is incurred will be eligible for reimbursement.

#### **Business Meals:**

- Require itemized detailed receipt for all Pcard charges and reimbursements.

## **SCHOLARSHIPS/FELLOWSHIPS**

<http://gsas.yale.edu/funding-aid/fellowships/gsas-other-fellowships>

**Smithsonian Institution Fellowship Program:** Through the Smithsonian's flagship fellowship program, graduate, pre-doctoral, and post-doctoral students – as well as conservators and senior scholars – have the opportunity to delve into independent research and study across an incredible range of disciplines at the largest museum in the world. For more information, go to: <http://smithsonianofi.com> or call the Smithsonian Office of Fellowships and Internships at 202-633-7070. Application deadline is 12/1/15 <http://si.edu/ofi>.

**East Asia and Pacific Summer Institutes (EAPSI) for U.S. Graduate Students – National Science Foundation:** EAPSI is open to graduate students who are U.S. citizens or permanent residents and are enrolled in a research-oriented Masters or Ph.D. programs in science or engineering. Please see [www.nsf.gov/eapsi](http://www.nsf.gov/eapsi) for additional information for the Program Solicitation (NSF 13-593); host location-specific Handbooks; How to Apply Guide; and Helpful Tips for Applicants. The application submission deadline for the Summer of 2016 is November 12, 2015. EAPSI Informational Webinar for applicants will be conducted on Friday, October 23 at 2:00 pm ET. Log-in instructions are available at [www.nsf.gov/eapsi](http://www.nsf.gov/eapsi)

**The National Academies of Sciences, Engineering, and Medicine** is accepting applications for the 2016 Ford Foundation Fellowships Programs for Achieving Excellence in College and University Teaching. Full eligibility information and online applications are available at: <http://nationalacademies.org/ford>

The **SMART Scholarship for Service Program** is an opportunity for students pursuing a Science, Technology, Engineering, and Mathematics (STEM) focused degree to receive a scholarship and employment after graduation as a civilian scientist or engineer at a Department of Defense facility. Scholarships awarded include a stipend up to \$38,000 a year, full tuition, health insurance contribution, and miscellaneous supplies allowance. For more information, please visit <http://smart.asee.org>.

Winter Data Science Fellowship: **The Data Incubator** is an intensive 7-week fellowship that prepares masters, PhDs, and postdocs in STEM + social science fields seeking industry careers as data scientists. Due to its success and increasing demand, they are launching another round. Further information can be found at: <https://www.thedataincubator.com/?ref=v646221>

**Paul & Daisy Soros Fellowships for New Americans** – This program invests in the graduate education of 30 New Americans – immigrants and the children of immigrants – who are poised to make significant contributions to U.S. society, culture or their academic fields. Each new Fellow receives up to \$90,000 in financial support over two years. Eligibility requirements can be found at: <http://pdsoros.org/> Applications are due on November 1, 2015.

## **POST-DOCTORAL OPPORTUNITIES**

The **Carolina Postdoctoral Program for Faculty Diversity** supports postdoctoral research appointments at the **University of North Carolina at Chapel Hill** and has as its goal the advancement of scholars from underrepresented groups in higher education. The program seeks to provide opportunities for scholarly development for the next generation of faculty at UNC and other research universities. The application window for this program is open, with a deadline of November 16 at: <http://research.unc.edu/carolina-postdocs/index.htm>. Link to UNC Chemistry Department: <http://www.chem.unc.edu/>.

There are three positions available for postdoctoral 'teacher-scholars' at **UCLA**.

<http://www.chemistry.ucla.edu/featured/2015-08/postdoctoral-fellowship-opportunity>

Jeff Gildersleeve is recruiting for his lab at the **NCI** in Frederick, MD with interest in molecular recognition of carbohydrates and design and synthesis of multivalent glycoconjugates. Candidates should have no more than one year of post-doctoral experience. Interested applicants should send their curriculum vitae, a brief description of their research interests and career goals, and contact information for two references to [gildersj@mail.nih.gov](mailto:gildersj@mail.nih.gov). Include an estimated start date.

The new **YIBS Yale Analytical and Stable Isotope Center (YASIC)** is awarding matching funds for student and post-doctoral research. Up to \$750 dollars in matching funds for analysis using any instruments currently housed in the center is available (<http://earth.yale.edu/yasic-instruments>). To apply please email a one page proposal summarizing your project to Brad Erkkila ([brad.erkkila@yale.edu](mailto:brad.erkkila@yale.edu)) and Pete Raymond ([peter.raymond@yale.edu](mailto:peter.raymond@yale.edu)).

Dr. Vince Carroll runs the medical chemistry group of a small company called **Molecular NeuroImaging** (<http://www.mnimaging.com>), located in New Haven. They are currently expanding rapidly and have two open positions for post-docs in his group. Interested individuals should contact Dr. Carroll ([vc Carroll@mnimaging.com](mailto:vc Carroll@mnimaging.com)).

Dr. T. Keith Hollis at **Mississippi State University** is seeking two postdoctoral fellows to work with organometallic synthesis and applications to catalysis related to energy topics. Interested candidates should send a cover letter, CV with complete publication list, and arrange to have three letters of recommendation forwarded by email. All materials may be sent to [khollis@chemistry.msstate.edu](mailto:khollis@chemistry.msstate.edu).

**Boston University's Center for Molecular Discovery** (<http://cmd.bu.edu>) is an NIH-funded effort established with the goal of enabling translational chemical and biological. Candidates with strong backgrounds in synthetic organic chemistry are sought for postdoctoral positions. Experience in multi-step synthesis and characterization of complex molecules is required. Candidates with experience integrating computational techniques with synthetic organic chemistry are also strongly encouraged to apply. Interested candidates should send a CV and the names of three references by email to Lisa Holik ([bucmd@bu.edu](mailto:bucmd@bu.edu)).

## **JOB OPPORTUNITIES**

**Southern Teachers Agency** helps private and independent schools hire K-12 science teachers. A degree in education is not necessarily required. More information is available at <http://www.southernteachers.com/>.

**Virginia Commonwealth University** invites applications for a tenure-eligible Assistant Professor position in the broad area of Analytical Chemistry to begin in fall 2016. The advertisement is posted in the electronic version of C&EN and in <http://academicjobs.org/>. For questions, contact Professor Sarah Rutan ([srutan@vcu.edu](mailto:srutan@vcu.edu)), chair of the search committee.

**Pfizer** has an opening for an entry-level Ph.D. position in their Process Chemistry Group in Groton, CT. They would like to have it filled by the end of the year but the start date is negotiable. To view and apply for this job, go to [www.pfizer.com/careers](http://www.pfizer.com/careers) and search for the job opening title "Senior Scientist – Process Chemistry" as key words or by using the job opening ID 1021029.

The Department of Chemistry and Biochemistry at the **University of Montana – Missoula** (<http://hsweb.hs.umt.edu/chemistry/default.php>) invites applications for a tenure-track faculty position in Environmental Chemistry at the Assistant Professor level to begin August 2016. Screening of applications will begin on November 15, 2015 and will continue until the position is filled. Inquiries and letters of recommendation should be directed to the Department at: [chemistry@umontana.edu](mailto:chemistry@umontana.edu) Applicants are required to submit all application materials, including a letter of intent, full CV, a summary of research plans, and a statement of teaching philosophy to: Environmental Chemistry Faculty Position.

Applications are invited for tenure-track positions in the Chemistry Department at the **University of Connecticut** to begin in Fall 2016. All areas of chemistry will be considered. To apply, please visit the University's *Husky Hire* online application system at: <https://academicjobsonline.org/ajo/jobs/5907>.

The Department of Chemistry at **Princeton University** is seeking a tenure-track Assistant Professor in all areas of chemistry. The job description and application can be found at [jobs.princeton.edu/applicants/Central?quickFind=67134](http://jobs.princeton.edu/applicants/Central?quickFind=67134).

**Macrolide Pharmaceuticals** (<http://www.macrolide.com/>) has an opening for a medicinal chemistry scientist. Ideal candidates should have a strong background in organic and medicinal chemistry and be driven to succeed within a team-oriented, fast-paced, and cross-disciplinary biotech environment. Experience in multistep total synthesis experience is strongly preferred. If you are interested, send your C.V. and research summary to Dr. Bhaumik Pandya ([bpandya@macrolide.com](mailto:bpandya@macrolide.com)).

The **University of Chicago** has openings for Assistant Professors in Chemistry. They seek candidates with interests in organic chemistry, inorganic chemistry, physical chemistry, materials, chemical biology, biophysics and other areas within the molecular sciences. Organic: <http://tinyurl.com/oxvy7n8> Inorganic: <http://tinyurl.com/nq59kgr> Physical: <http://tinyurl.com/py98uyk>

The **Stanford Neurosciences Institute at Stanford University** invites applications for a tenure-track position as an assistant or untenured associate professor in molecular neuroscience, broadly defined. Applicants are expected to have a doctoral degree in neuroscience, genetics, biochemistry, biophysics, bioengineering or any related discipline, and encourage physician-scientists to apply. Applicants should submit a cover letter, CV, 3-5 page statement of research accomplishments and plans (figures and references included), 1 page teaching statement, 2 representative publications, and 3-5 letters of reference. All materials should be submitted online at <https://academicjobsonline.org/ajo/jobs/5856>. The search committee will begin reviewing applications on October 15, 2015; applications will not be accepted after November 15, 2015.

The **University of Alabama** (<http://chemistry.ua.edu>) is seeking to fill a tenure track position at the Assistant Professor rank beginning August 16, 2016. The individual should have expertise in biochemistry. Apply online at <https://facultyjobs.ua.edu/postings/37619> and provide CV with publication list, research plans and teaching philosophy statement and arrange for 3 letters of reference to be sent to the Chair, Biochemistry Search Committee, Department of Chemistry, Box 870336, The University of Alabama, Tuscaloosa, AL 35487 or sent electronically to [chemistry@as.ua.edu](mailto:chemistry@as.ua.edu). Review of applications began on October 1 and will continue until the position is filled.

The **University of Maryland Baltimore County (UMBC)** has an open faculty position in the Department of Chemistry and Biochemistry. With two excellent medical schools (University of Maryland Baltimore and Johns Hopkins), and a wide range of government laboratories, the Baltimore area is an ideal location for chemists and biochemists who work at the chem-bio interface. The faculty search is ongoing and review of applications will begin as early as November 1, 2015. The search will remain open until the position is filled. <http://chemistry.umbc.edu/overview/open-positions/>.