

2015 WEEKLY BULLETIN
DEPARTMENT OF CHEMISTRY, NORTHWESTERN UNIVERSITY
EVANSTON, ILLINOIS
September 14, 2015

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

Tuesday September 15th: *Faculty Lunch Seminar: Franz Geiger*
Tech K140
12:00 – 1:00pm

BIP

Meets every Friday at 2:45pm in Tech K140

Arrivals

Weiqiang Wu joined the Weitz Group
Jialong Zhang joined the Marks Group

Announcements:

Companies signed up to conduct on-campus interview this fall in the Department of Chemistry

Sept. 17-18 – Dow Chemical
Sept. 21-22 – PPG
Sept. 30/Oct. 1-2 – Air Products

Opportunities

Intel, Santa Clara is looking for a process engineer. Their team is looking for a PhD student/postdoc who will be a process engineer in the mask cleaning group. For more information about the position or the application process please contact Archana Krovi at sai.archana.krovi@intel.com

Naval Research Laboratory has an opening for a postdoctoral associateship on the impact of nanoconfinement on enzyme catalysis.

The U.S. Naval Research Laboratory Bio/Analytical Chemistry Section is looking for a qualified Ph.D. candidate for a postdoctoral position in biochemistry and biomaterials. Qualified candidates need to hold a Ph.D. in Biochemistry, Chemistry, Biology or related field and be willing to work on interdisciplinary programs. Candidates with research experience in enzymes, soft nanotechnology, and/or self-assembled nanostructures are of interest. Specific desired skills include 3D confocal microscopy, cell culturing, microfluidics, fluorescence spectroscopy, as well as biological atomic force microscopy.

NRL collaborates with the National Research Council (NRC) and the American Society of Engineering Education (ASEE) to place postdoctoral associates at the Lab. The starting salaries for these positions are approximately \$74,872/year and require US citizenship or permanent resident status. Additional information about these opportunities can be found at:

<http://sites.nationalacademies.org/pga/rap/>

AND

<http://nrl.asee.org/>

Please send CV's and interest letters to Dr. Greg Collins (Head, Bio/Analytical Chemistry Section, NRL) at Greg.Collins@nrl.navy.mil

York University Chemistry Department has been methodically developing a program in Materials over the last decade and, in support of this, has made hires at the assistant professor level. These efforts in Chemistry have been mirrored in the new Lassonde School of Engineering over the last few years with a number of hires in the field, especially in Mechanical Engineering. It is because of this established, focused, and now collaborative growth in Materials Science across York University that the Office of Research and Innovation has chosen to pour significant resources into this area and has committed to supporting it moving forward.

One position is a Tier 1 Canada Research Chair (CRC), which as you know, targets a trend-setter in the field, but also someone who can serve to lead our efforts in Materials Science at York and to be the point person to inspire collaborative efforts and programs, and initiate large grant proposals; such a person would be a proven leader with a significant track record. The second position is a Tier 2 CRC and targets an up-and-comer in Materials Science. Such a candidate would be either completing their post-doctoral position, or is currently a junior faculty member who has made significant progress in establishing themselves as a potential leader in Materials Science and would see their program rapidly accelerate by the additional resources that York and the CRC program would provide.

These two CRC positions will be housed in the Chemistry Department, but the successful candidates would have access to faculty collaborators, students, and resources in the departments of Biology, Physics, and those within the Lassonde School of Engineering. Furthermore, these individuals would be strongly encouraged to establish joint appointments with these units and to organize cooperative initiatives across the campus that would benefit the entire York community.

The deadline for full consideration is October 15, 2015. <http://www.yorku.ca/index.html>

The Department of Chemistry at Colorado State University, located in Fort Collins, CO, seeks to hire at least two tenure-track faculty members. While exceptional candidates from all areas of chemical science are encouraged to apply, candidates with research interests in chemical biology, experimental physical chemistry, and/or soft materials are of particular interest.

We aim to fill these positions at the Assistant Professor level, but will consider exceptional candidates at the Associate Professor rank. Candidates must hold a Ph.D. or equivalent degree and be capable of outstanding teaching, scholarship, and research. Postdoctoral experience is highly desirable. Complete applications must include a detailed CV, descriptions of research plans and teaching interests, and the names of at least three references.

For more information or to apply see <http://jobs.colostate.edu/postings/17641>. Questions regarding the searches should be directed to Chair, Faculty Search Committee, CHEM_search@mail.colostate.edu. Applications will be accepted until the positions are filled; applications completed by 11:59 PM (MT) on October 15, 2015 will receive full consideration. Files of semifinalists will be available to all Chemistry Department regular faculty. CSU is an EO/EA/AA employer. Colorado State University conducts background checks on all final candidates.

Western Washington University (WWU) invites applications for a tenure-track assistant professor position in analytical chemistry beginning September 15, 2016.

About the Position

The successful candidate will be required to teach quantitative analysis and instrumental analysis as well as general chemistry and appropriate special topics courses. Successful candidates must be committed to quality undergraduate education and will be expected to develop and maintain an active research program involving undergraduate students.

Position Details: <https://jobs.wwu.edu/JobPosting.aspx?JPID=6580> . Review of applications begins October 1, 2015; position open until filled.

About Western Washington University: WWU is a primarily undergraduate institution with an enrollment of about 15,000 students and is consistently ranked among the top universities in the Western United States. WWU has also been named as one of the best colleges to work for by the Chronicle of Higher Education. The chemistry department of 18 faculty offers M.S., B.S., and B.A. degree programs in chemistry and biochemistry. The department graduates ~50 majors per year and is a top producer of ACS-certified B.S. chemistry degrees, ranking 13th nationally (<http://www.chem.wwu.edu/>). The WWU campus is in Bellingham, WA, located between Vancouver, Canada and Seattle overlooking the Puget Sound and the San Juan Islands (<http://www.bellingham.org/>).

Attached is a more detailed description of the position including required and preferred qualifications. (Note: while post-doctoral research experience is a preferred qualification, this should not discourage recent Ph.D. graduates or other qualified individuals from applying for the position.)

The Hope College Chemistry Department invites applications for a tenure-track position at the Assistant Professor level to begin in Fall 2016. Candidates must have a Ph.D. and postdoctoral experience in biochemistry and/or chemistry. Primary teaching responsibilities will be in the biochemistry program. The Chemistry Department (www.hope.edu/academic/chemistry) is a national leader in undergraduate research. The development of a strong, externally-funded, experimental research program involving undergraduate students is expected. Start-up funds will be provided.

Please submit a cover letter, curriculum vitae, description of research plans, statement of teaching philosophy and competencies, and undergraduate and graduate transcripts to Dr. Jeffrey B. Johnson, Search Committee Chairperson. This material should be submitted electronically via an online application located at www.hope.edu/employment/faculty. Please also arrange for three letters of recommendation to be sent to jobs@hope.edu. Review of all completed applications will begin September 24. A subset of candidates will be asked to submit a statement describing their fit to the mission of Hope College in late September and be available for a Skype interview.

Hope College is a Christian coeducational, residential liberal arts undergraduate college affiliated with the Reformed Church in America; has over 3,000 students and approximately 250 FTE faculty; is a member of the Great Lakes Colleges Association; is accredited by NCA, ACS, ASBMB, NASAD, NASD, NASM, NAST, CCNE, CSWE, EAC of ABET, TEAC and CAATE. The college is located in Holland, Michigan, an attractive city of 35,000 near the shores of Lake Michigan, enriched by a significant Latino population and growing Asian and African American populations in a rapidly growing urban area of over 100,000, within short driving distance of Grand Rapids and relatively close to Ann Arbor and Chicago. The mission of Hope College is to educate students for lives of leadership and service in a global society through academic and co-curricular programs of recognized excellence in the liberal arts and in the context of the historic Christian faith. Additional information about Holland, Hope College, and the Chemistry Department can be found at www.hope.edu/academic/chemistry/openings/biochemistry.pdf. Hope College places a high priority on sustaining a supportive environment that recognizes the importance of having diverse faculty and staff in order to best prepare our students for successful careers in our multi-cultural nation and global community. Applicants with diverse backgrounds and cultures are encouraged to apply. Hope College is an equal opportunity employer.

The Department of Chemistry at the University of Pennsylvania in Philadelphia, PA plans to make a tenure track appointment at the Assistant Professor level. The appointment will be in the broadly defined area of Biological Chemistry, with a particular, but not exclusive, interest in cryoelectron microscopy, the structure and function of RNA or membrane proteins, development of screening and “omics” technologies, or multi-step biosynthesis. The candidate is expected to establish an externally funded research program and participate in the Department’s undergraduate and graduate teaching mission.

Applicants must apply online at <http://facultysearches.provost.upenn.edu/postings/645> . Required application materials include: a curriculum vitae including a list of publications, and a description of proposed research. Applicants should also submit the names and contact information of three individuals who will provide letters of recommendation.

Review of applications will begin on October 15, 2015 and will continue until the position is filled. The Department of Chemistry is strongly committed to Penn’s Action Plan for Faculty Diversity and Excellence and to creating a more diverse faculty (for more information see: <http://www.upenn.edu/almanac/volumes/v58/n02/diversityplan.html>). The University of Pennsylvania is an equal opportunity employer. Minorities, women, individuals with disabilities, and protected veterans are encouraged to apply.

The Department of Chemistry at the University of Kentucky is seeking candidates for a tenure track assistant professor faculty position. The research area is focused on synthetic biology, with particular interest in the control and engineering of cellular systems for the production of high-value chemicals such as carotenoids, enhanced lipid production or protein content, and so on. This position has a start date of August 2016. A Ph.D. in Chemistry or a closely related field is required and postdoctoral experience is highly desirable.

Our Department houses research programs in all areas of chemistry and has a vibrant graduate program. The Department currently has 29 tenure-track faculty members and offers BA and BS undergraduate degrees (including a BS with Biochemistry option), as well as MS and Ph.D. graduate degrees. The Department has close ties to UK interdisciplinary research centers, including the Sanders-Brown Center on Aging (<http://www.uky.edu/coa/>), the Markey Cancer Center (<http://ukhealthcare.uky.edu/markey/>) and the Center for Applied Energy Research (www.caer.uky.edu), which is the site of the Kentucky-Argonne National Battery Research and Manufacturing Center.

The University of Kentucky is a land-grant University with on-campus schools of Business, Dentistry, Law, Medicine, and Nursing. The UK student body numbers over 30,000 undergraduate, graduate, and professional school students. The University is located in Lexington, a city of 300,000 in the center of the scenic Bluegrass region of Kentucky.

We would be grateful if you would circulate this email within your department and bring this position to the attention of promising candidates. Details of the position and instructions for submission of applications can be found on our website <http://ukjobs.uky.edu/postings/77774>. We will begin reviewing the applications on October 14, 2015.

The University of Kentucky is an Affirmative Action/Equal Opportunity University that values diversity and is located in an increasingly diverse geographical region. It is committed to becoming one of the top public institutions in the country. Women, persons with disabilities, and members of other underrepresented groups are encouraged to apply. The University also supports family-friendly policies

The Department of Chemistry and Biochemistry of the University of Maryland invites applications for a tenure-track Assistant Professor position, starting August, 2016. We seek candidates performing innovative research in organic chemistry, broadly defined. Scientists pursuing research directed toward contemporary application areas at the interface of organic chemistry with biology, materials or analytical chemistry are particularly encouraged to apply. The criteria for selection will be proven excellence and outstanding potential for scientific impact through original research and scholarship.

Successful candidates will be expected to develop vigorous externally funded research programs and to teach undergraduate and graduate courses. A key department in the College of Computer Science, Mathematical, and Natural Sciences, Chemistry and Biochemistry faculty participate in major University and federally-funded Centers, and enjoy close interactions and collaborations with nearby government labs that include NIH, NRL, FDA, and NIST. The University of Maryland, College Park is the flagship campus of the University of Maryland System and is ideally situated in close proximity to Washington, D. C., Baltimore, and Maryland's 270 Technology Corridor.

Applications, consisting of a cover letter, curriculum vitae, research plan statements (3 pages per plan), statement of educational interests, and three references, must be submitted electronically to:

<https://ejobs.umd.edu/postings/35795>

Qualifications: Scholars who will build highly acclaimed research programs and achieve excellence in education. Candidates must have a Ph.D. degree, demonstrated accomplishments in independent research, and be an effective educator in the chemical sciences.

Salary: Commensurate with qualifications.

Deadline: Review of applications will begin October 1, 2015, but we will continue to accept applications until the positions are filled.

Inquiries and/or nominations should be directed to chembchm2016fac@umd.edu, Chair of the Faculty Search Committee.

AN EQUAL OPPORTUNITY, AFFIRMATIVE ACTION EMPLOYER. APPLICATIONS FROM WOMEN AND MINORITIES ARE ENCOURAGED

The Zukowski Center is looking for an undergraduate or preferably a graduate student in chemistry that is willing to work with a local plastic surgeon to do internet searches, contact manufacturers, and help formulate additional product lines of all natural essential oil bug repellent. You will be working as an independent contractor earning between \$20 to \$30 per hour depending upon experience. Hours will work around your schedule and you will also receive free products. Great opportunity to see immediate application of chemistry to a "real world" retail product. Send resume to facesculptor@yahoo.com.

University of Liverpool, Faculty of Science and Engineering, School of Physical Sciences, Department of Chemistry - A Research Coordinator position is available in the group of Professor A I Cooper, Director -Materials Innovation Factory. The candidate should have a PhD in Chemistry, Physics, or Materials Science and excellent research skills in Materials Chemistry. Target areas include conjugated organic polymers, porous materials, organic crystalline solids, energy and photocatalysis. An excellent publication record and demonstrated ability to take responsibility in research organisation are essential. The role will focus on the most challenging areas of new materials synthesis, characterisation, and/or computation and will have considerable scope for contribution to strategic planning and development of new research directions. This is an ideal opportunity for an ambitious individual with high levels of achievement in experimental or computational materials chemistry and the potential to become a future leader in materials research. The start date could be flexible for the right candidate, but the post is nominally available from October 1, 2015.

<https://www.liv.ac.uk/working/jobvacancies/currentvacancies/research/r-578999/>

The Georgia Institute of Technology, School of Chemistry and Biochemistry seeks to fill three or more tenure-track faculty positions. Candidates from all areas will be considered, with opportunities for joint appointments in other departments of science and engineering to facilitate interdisciplinary research and scholarship. Exceptional candidates at all levels are encouraged to apply. Candidates for appointment at the assistant professor level should submit an application letter, curriculum vita, summary of research plans, description of teaching interests and philosophy, and arrange for submission of three letters of reference. Candidates at advanced levels should submit an application letter, curriculum vita, and a brief description of research plans (particularly if future plans differ significantly from past efforts). All materials and requests for information should be submitted electronically, as per the instructions found at:

<https://academicjobsonline.org/ajo/jobs/5757>

The application deadline is September 15, 2015 with application review continuing until the positions are filled. Georgia Tech is an equal education/employment opportunity institution.

Oxford Instruments – Santa Barbara, California is accepting applications for an **Industrial Postdoctoral Researcher**

Asylum Research, an Oxford Instruments Company and technology leader in Scanning Probe Microscopy, has a Postdoctoral Research position immediately available for a highly motivated and skilled experimentalist. As a postdoc with our company, you will use the latest SPM technology to investigate a variety of physical problems on the sub-micrometer level, including:

- High resolution imaging
- Nanomechanics
- Ferro- and Piezo-electric materials
- Nanoelectrical Measurements
- Functional Energy Production and Storage
- Fluid and Biological Imaging
- Chemical Measurements

In addition to working on ongoing research projects as described above, you will publish in peer-reviewed journals, work on projects for deployment to end users and participate in development of next-generation SPM technology.

The Candidate

Successful candidates must have:

- PhD in Physics, Chemistry, Materials Science or a related discipline
- Demonstrated publication writing and public speaking skills
- Background in SPM research or related application areas such as energy, polymers, physics, or chemistry
- Creative and independent thinking skills, along with the ability to work effectively in a collaborative and interdisciplinary setting
- Industrial experience is a plus

Apply for the Position

Asylum Research offers a creative and casual work environment with flexible hours and a chance to work with some of the most talented scientists and engineers in the field of SPM. We also provide a competitive salary and benefits program including medical, dental, vision and 401k. Postdoctoral positions are one-year appointments but have the potential to evolve into permanent staff scientist positions. To apply for this outstanding opportunity, please send your CV and three references in PDF format to Erin.McClanahan@oxinst.com . Please include the job title “Postdoctoral Associate” in the subject line. For further information, please visit our website at www.AsylumResearch.com .

Asylum Research, an Oxford Instruments Company is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or protected veteran status.

University of Notre Dame, Department of Chemistry and Biochemistry - Synthetic

Organic/Medicinal Chemists: Two postdoctoral positions in synthetic organic chemistry/medicinal chemistry are available. The qualified applicant would have a Ph.D. in synthetic chemistry and would be knowledgeable of modern synthetic techniques and structure analysis. He/she should be able to perform multiplestep syntheses of molecules designed as potential antibiotics, or probes of mechanisms of action of enzymes involved in antibiotic resistance. Knowledge of enzyme chemistry and/or medicinal chemistry principles is desirable but not required. The work environment is multidisciplinary and the successful candidates will have the opportunity to work among a large group of scientists of similar interests within our groups.

South Bend, Indiana, is a college town and a wonderful place live. The cost of living is relatively low, so students and postdocs enjoy a higher standard of living compared to other locations. The city is within 1.5 hours of Chicago by car and there are regular train and air service as well.

Interested candidates should e-mail their curriculum vitae, along with the names of three individuals who would be able to write letters of recommendations on their behalf to either of the addresses below: Prof. Mayland chang (mchang@nd.edu) or Prof. Shahriar Mobashery (mobashery@nd.edu)

Department of Chemistry and Biochemistry
423 Nieuwland Science Center
University of Notre Dame
Notre Dame, IN 46556 USA

University of Notre Dame, Department of Chemistry and Biochemistry -Organic/Analytical Chemist:

A postdoctoral position in organic chemistry/analytical chemistry is available. The ideal candidate would have a Ph.D. in synthetic organic chemistry, who would like to learn pharmacokinetics, proteomics, and biochemical assays, which my laboratory can teach. He/she should be able to perform multiple-step syntheses of molecules designed as potential inhibitors of matrix metalloproteinases to investigate the roles of these proteases in neurological diseases (traumatic brain injury, spinal cord injury) and/or diabetic wound healing. The training is multidisciplinary (synthetic organic chemistry, bioanalytical chemistry, proteomics, biochemistry, animal models of disease) and translational (analyses of human tissues from patients with disease and healthy controls), and will expand opportunities to solve biomedical problems. The work environment is multidisciplinary and the successful candidate will have the opportunity to work among a large group of scientists of diverse interests within our group.

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Prof. Mayland Chang (mchang@nd.edu)
Department of Chemistry and Biochemistry
127 Nieuwland Science Center
University of Notre Dame
Notre Dame, IN 46556 USA

University of Notre Dame, Department of Chemistry and Biochemistry - Biochemists/Molecular Biologists/Biotechnologist: Two postdoctoral positions suitable for someone of background in molecular biology, biochemistry or biotechnology are available. The qualified applicants will have the Ph.D. degree in one of these disciplines. The tasks involve cloning genes, expressing proteins, purifying proteins and characterizing them by performing kinetics experiments. Knowledge of enzyme chemistry is desirable, but not a requirement. The projects deal with novel antibiotic classes and mechanisms of resistance to them. The work environment is multidisciplinary and the successful candidates will have the opportunity to work among a large group of scientists of similar interests within the group.

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Interested candidates should e-mail their curriculum vitae, along with the names of three individuals who would be able to write letters of recommendations on their behalf to either of the addresses below: Prof. Mayland Chang (mchang@nd.edu) or Prof. Shahriar Mobashery (mobashery@nd.edu)
Department of Chemistry and Biochemistry
423 Nieuwland Science Center
University of Notre Dame
Notre Dame, IN 46556 USA

The Department of Chemistry, University of Toronto, invites applications for a tenure stream position at the rank of Assistant Professor or Associate Professor in the area of Experimental Physical Chemistry, including fundamental studies of materials and/or biophysical chemistry. The position start date is July 1, 2016.

Applicants **must have earned a PhD by date of the appointment or soon thereafter** in the broadly defined area of Physical Chemistry, a strong academic background, an excellent research record and demonstrated excellence in teaching. Successful candidates will be expected to conduct innovative research at the highest international level and to establish an outstanding, externally funded research program. Evidence of excellence in teaching will be demonstrated through teaching accomplishments, letters of reference and the teaching dossier submitted as part of the application. Candidates also must have a record of excellence in research as demonstrated by publications in top ranked and field relevant academic journals, presentations at significant conferences, and strong endorsements by referees.

Salary and rank will be commensurate with qualifications and experience.

All qualified candidates are invited to apply by clicking on the link below. Applications should include curriculum vitae, a statement of teaching philosophy and interests, and an outline of proposed research. If you have questions about this position, please contact receptn@chem.utoronto.ca. All application materials should be submitted online.

Please combine attachments into one or two clearly labeled files in PDF format. Submission guidelines can be found at <http://uoft.me/how-to-apply>.

Applicants should also arrange to have three confidential letters of recommendation sent on their behalf to receptn@chem.utoronto.ca. To ensure full consideration, applications should be received by October 1, 2015. This search will remain open until filled.

For more information about the Department of Chemistry, please visit our website, www.chem.utoronto.ca.

The University of Toronto is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

Stanford ChEM-H at Stanford University Tenure-track Faculty Position: Stanford ChEM-H is an independent institute at Stanford University, formed in partnership with the Schools of Humanities and Sciences, Engineering and Medicine. More information about the institute can be found on <https://chemh.stanford.edu/>. The Institute 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. or M.D. degree in any discipline of science, engineering or medicine. We will consider applicants knowledgeable in any frontier area of research at the interface between chemistry, biology, engineering, and medicine. In general, we give higher priority to the overall originality and promise of the candidate's work than to the sub-area of specialization.

The successful candidate will have his/her primary appointment in a department within the School of Humanities and Sciences, Engineering or Medicine. He/she will be expected to teach and/or perform clinical service within this department in a manner that is consistent with standard practices for tenure-track faculty within that department. The candidate will also be expected to develop a world-class research program. Applicants should be seeking a stimulating interdisciplinary environment in which to pursue teaching and research. We anticipate that the faculty member will develop interactions with faculty not only in his/her home department but also in other departments and Schools at Stanford and/or the Stanford Synchrotron Radiation Laboratory.

Applications should be addressed to Professors James Chen and Justin Du Bois, Search Committee Co-Chairs, and include a curriculum vitae (including research accomplishments, teaching experience, and publications), a description of future research plans, a teaching statement, and at least three letters of reference. All materials should be submitted online at <https://academicjobsonline.org/ajo/jobs/5672>. To ensure full consideration, applications should be submitted by October 15, 2015. Questions should be addressed to Professors Chen or Du Bois at chemh_info@stanford.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.