



CHE NEWSLETTER

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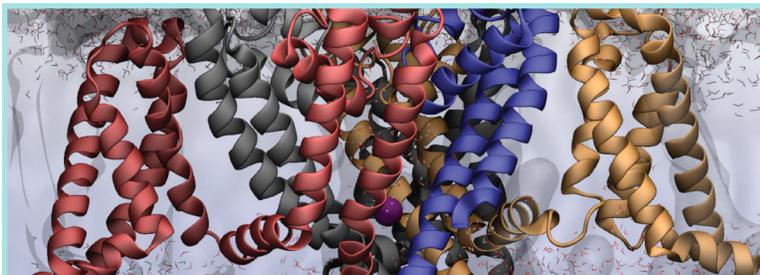
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Using methods developed under the auspices of the MolSSI, advanced simulations of ion channels, in all atom detail, can be performed on millisecond timescales to yield insights into basic biophysical questions with implications for biology.

The Molecular Sciences Software Institute (MolSSI) was launched August 1st, 2016, as a joint \$19.4 million initiative (ACI-1547580) between the Divisions of Chemistry (CHE), Advanced Cyberinfrastructure (ACI), and Materials Research (DMR), and the Office of Multidisciplinary Activities (OMA). The effort is led by researchers at Virginia Tech, Rice University, the University of California at Berkeley, Stony Brook University, Rutgers University, University of Southern California, Stanford University, and Iowa State University. Headquartered at Virginia Tech in Blacksburg, Virginia, the Institute serves as a nexus for science, education, and cooperation for the worldwide community of computational molecular scientists — a broad field encompassing biomolecular simulation, quantum chemistry, and materials science.

The MolSSI engages a team of Software Scientists (molecular scientists, computer scientists, and applied mathematicians with software engineering expertise) as well as a large cohort of Software Fellows (graduate students and postdocs in research groups across the country) to develop open-source modules, frameworks, and other software infrastructure for use across the spectrum of community molecular science codes. An advisory board of internationally renowned researchers in multiple fields provides guidance in determining the Institute's development efforts. To complement these efforts, the MolSSI also enables the formation of the Molecular Sciences Consortium, which includes representatives from across the disciplines to work together to establish community-wide standards for data, software, and best practices. Finally, to enhance education and community engagement, the Institute sponsors a range of workshops, summer schools, an online Ph.D. certificate in software best practices, and a Professional Master's Degree in Molecular Science and Software Engineering.

In the coming months, the MolSSI will announce calls for proposals for community-driven workshops and Software Fellowships, as well as a launch event at the American Chemical Society Meeting in San Francisco in April 2017. In addition, MolSSI is in the process of hiring multiple Software Scientists. More information can be found at the Institute's website: molssi.org. If you are interested in being on the mailing lists to receive announcements concerning MolSSI, please send an e-mail to molssi@vt.edu or visit the MolSSI Google Group: <http://bit.ly/molssi-g>.





UPDATE FROM THE DIVISION DIRECTOR

ANGELA K. WILSON

Dear Colleagues,

It is hard to believe that it is already fall, and I have been at NSF for approximately eight months. I continue to be impressed with the Chemistry staff and all that they do to support high quality projects, and the amount of attention that they provide to each and every proposal. Seeing NSF “behind the scenes” has been quite enjoyable, and an experience that I highly recommend.

Potential New Directions for NSF

NSF has recently identified new areas of interest to the agency via NSF’s “Big Ideas.” These are areas in which innovative approaches are sought to address significant scientific, technical and educational challenges. The Division of Chemistry is excited about the identified areas, as several these topics are ones in which chemistry plays a role, and, in some areas, a major role (see, e.g., the workshops mentioned below). Several of the Big Ideas could take chemistry in new, exciting and important directions. Though more information is provided online and will be forthcoming over the next year or so, some of the research topics in which chemistry is relevant include:

- Work at the Human-Technology Frontier: Shaping the Future,
- Navigating the New Arctic, and
- Growing Convergent Research at NSF.

We are especially interested in:

- Harnessing Data for 21st Century Science and Engineering,
- The Quantum Leap: Leading the Next Quantum Revolution,
- Understanding the Rules of Life: Predicting Phenotype,
- and Mid-scale Research Infrastructure.

Many of the Big Ideas research initiatives will require efforts via interdisciplinary collaborations. More details will come via possible solicitations, Dear Colleague Letters, and workshops and workshop reports, such as those discussed herein.

Workshops and Your Thoughts

The Division of Chemistry (CHE) holds a number of workshops each year. The workshops provide a unique environment in which to learn more about a field as well as to provide the chemistry community (including CHE) with deeper insight about various topical areas. A workshop often signals an upcoming funding opportunity — be it a supplement call, Dear Colleague Letter, or solicitation.

Recent workshops have focused upon challenges related to the **Chemistry of the Brain**, as well as two areas of focus as presented in NSF’s “Big Ideas”. One of these workshops was focused on ways that chemistry can play a role in the **Quantum Leap** (quantum chemistry and quantum computing) with targeted areas including studies of molecular spin, quantum bits, ion traps, molecular spectroscopy, quantum algorithms and modeling, cold chemistry, and molecular materials. We have also sponsored two workshops on **Mid-scale Instrumentation** that considered the need of the chemistry community to develop new instruments or instrument suites in the \$4-120 million range. We are especially interested in instrumentation that could answer essential fundamental questions and lead to transformative new discoveries in chemistry. Reports stemming from each of these workshops will be available in 2017. If you have ideas about science drivers for new instruments, please e-mail them to: cheminfo@nsf.gov.

Early Career Workshop — In March 2017, a workshop targeting new faculty, providing opportunities to engage with and learn from experienced investigators and the NSF Chemistry staff, will be held. More information about this is provided later in this newsletter.

Data Revolution in Chemistry – We plan to hold a workshop in 2017 that focuses upon better utility of the data we generate in our laboratories towards new scientific discoveries and directions. More information will be forthcoming, but, if you have interest in providing feedback or are interested in the workshop, please contact: cheminfo@nsf.gov.

Shortened “Best” Time for Supplement Consideration.

NSF’s move from Arlington, to Alexandria, Virginia is slated to begin in August 2017. This move *will* impact you if you are planning to submit any supplement requests this year. Because our internal deadlines have been moved forward, we encourage supplement requests to be submitted by February 1, 2017 for best consideration:

- Research Experiences for Undergraduates (REUs),
- Research Experiences for Teachers (RETs),
- Research Opportunity Awards (ROAs),
- Graduate Education,
- International,
- Career Life Balance (CLB),
- Supplement Funding for Opportunity for Historically Black Colleges and Universities (HBCUs), and
- Alliances for Graduate Education and the Professoriate (AGEP))

The CHE website will post new/updated Dear Colleague Letters about opportunities shortly. Contact your Program Director before submission!

Compliance Checking Proposals.

As I understand how much time it takes to put together a proposal, I ask that Principal Investigators (PIs) be sure to check the new NSF proposal formatting guidelines annually. NSF does change the required proposal formatting from time to time — usually in January. Many of the changes in the *Grant Proposal Guide* (effective January 30, 2017 this document will now be referred to solely as the *NSF Proposal & Award Policies & Procedures Guide (PAPPG)*) are to aid in ensuring timely processing of proposals and are helpful to the reviewers as well as to NSF. *Note that proposals that do not follow the required formatting may be subject to return without review.*

We note two changes that are being missed this year: (1) Letters of collaboration are required to follow new NSF formats — see the Grant Proposal Guide (or PAPPG) for the specific wording that must be used. (2) Collaborators and other affiliations information must be provided as a separate single copy document, and no longer should appear within the bio sketch. *Going forward, proposals that do not address these changes appropriately will be returned without review.*

Rotator Opportunities.

On a more positive note, and following my earlier comment about time at NSF being very enjoyable, the Division has recently added five new program directors, and I am very excited about our new additions: Ken Moloy, Kevin Mueller, Susan Atlas, Bob Cave and Max Funk. Our new Program Directors provide further strength and energy to an already dynamic team.

As is the nature of our part-rotator staff, we are already thinking about new rotators for fall 2017, and anticipate needs in at least three areas, organic synthesis, catalysis, and surface chemistry applied to catalysis and nanochemistry. We have a new opportunity for a possible January 2017 hire, so, if you are interested in serving a one- to three-year rotation in the Division of Chemistry, we would be glad to hear from you at CHE-recruit@nsf.gov. Based upon my own experiences and those of other rotators, it is quite feasible to maintain an active research group at your own institution while serving in the rotator role. More information can be found [here](#).

I hope that you have an enjoyable fall, and I look forward to seeing many of you at the Spring 2017 ACS National Meeting in San Francisco in April or at Pittcon in Chicago in March.

—Angela

Angela K. Wilson
Division Director, CHE

CHEMISTRY ANNOUNCEMENTS



THE DIVISION WELCOMES THE FOLLOWING NEW STAFF MEMBER

Dr. Susan Atlas joins us from the University of New Mexico where she is Research Professor and Director of the Center for Advanced Research Computing. Dr. Atlas serves as a Program Director in the Chemical Theory, Models & Computational Methods (CTMC) and Centers for Chemical Innovation (CCI) Programs.



THE DIVISION WELCOMES BACK GLORIA YANCEY

Gloria Yancey is returning from her detail as the Directorate Administrative Coordinator in the Directorate for Mathematical & Physical Sciences. She will resume her role as the Program Support Manager for the Division of Chemistry.



THE DIVISION SAYS GOOD-BYE TO MICHELE R. JOHNSON

The Division thanks Michele R. Johnson for her dedication and hard work as the Acting Program Support Manager while Gloria was on detail. The Division of Chemistry wishes her continued success as she returns to her home in the Division of Physics.



THE DIVISION WOULD LIKE TO WELCOME BACK RICHARD JOHNSON

Dr. Richard Johnson from the University of New Hampshire will join the Division as a part-time Program Director to assist the Chemical Synthesis (SYN) Program.



THE DIVISION CONGRATULATES MARSHA HAWKINS ON RECEIVING THE 2016 DIRECTOR'S AWARD

Marsha Hawkins, CHE Program Specialist, received the 2016 Director's Award for exemplary leadership in fostering external community engagement by organizing, designing, and publishing the Division's quarterly newsletter. Congratulations and job well done!



THE DIVISION CONGRATULATES TIMOTHY PATTEN ON RECEIVING THE 2016 MPS PEER RECOGNITION AWARD

Timothy, Team Lead in the Chemical Catalysis Program, has been recognized by his peers for his willingness to go above and beyond his core duties, exceeding the scope of his responsibilities, and making positive contributions to a MPS culture that celebrates teamwork, initiative, and professionalism. Congratulations Tim and thank you for your service to the community and Division!

FUNDING OPPORTUNITIES

INNOVATIONS AT THE NEXUS OF FOOD, ENERGY, AND WATER SYSTEMS (INFEWS)

Humanity is reliant upon the physical resources and natural systems of the Earth for the provision of food, energy, and water. There is a critical need for research that enables new means of adapting to future challenges. The food, energy, and water systems must be defined broadly, incorporating physical processes (such as man-made infrastructure and new technologies for more efficient resource utilization), natural processes (floods and droughts), biological processes (such as agriculture and livestock production), social/behavioral processes (such as decision-making processes), data sciences, and computation and modeling. It is the synergy among these components in the context of sustainability that will open innovative science and engineering pathways to produce new knowledge and novel technologies to solve the challenges of scarcity and variability.

The overarching goal of INFEWS is to catalyze the well-integrated interdisciplinary research efforts to transform scientific understanding of the food, energy and water nexus in order to improve system function and management, address system stressors, increase resilience, and ensure sustainability.

INFEWS enables interagency cooperation on one of the most pressing problems of the millennium - understanding interactions across the food, energy and water nexus - how the interactions are likely to affect our world, and how we can proactively plan for their consequences. The NSF and the United States Department of Agriculture National Institute of Food and Agriculture (USDA/NIFA) are interested in promoting interdisciplinary cooperation that links scientists and engineers to solve the significant global challenges at the nexus of food, energy and water systems. Proposals including international collaboration are encouraged when those efforts enhance the merit of the proposed work by incorporating unique resources, expertise, facilities or sites of international partners.

Please click on one of the available links for more information:

HTML: https://www.nsf.gov/pubs/2017/nsf17530/nsf17530.htm?WT.mc_id=USNSF_25&WT.mc_ev=click

PDF: https://www.nsf.gov/pubs/2017/nsf17530/nsf17530.pdf?WT.mc_id=USNSF_25&WT.mc_ev=click

DESIGNING MATERIALS TO REVOLUTIONIZE AND ENGINEER OUR FUTURE (DMREF)

Designing Materials to Revolutionize and Engineer our Future (DMREF) is the primary program by which NSF participates in the *Materials Genome Initiative (MGI) for Global Competitiveness*. MGI recognizes the importance of materials science (defined broadly) to the well-being and advancement of society and aims to “deploy advanced materials at least twice as fast as possible today, at a fraction of the cost.” DMREF integrates materials discovery, development, property optimization, and systems design and optimization, with each employing a toolset to be developed within a materials innovation infrastructure. The toolset synergistically integrates advanced computational methods and visual analytics with data-enabled scientific discovery and innovative experimental techniques to revolutionize our approach to materials science and engineering.

Accordingly, DMREF supports activities that accelerate materials discovery and development by building the fundamental knowledge base needed to design and make materials with specific and desired functions or properties from first principles. This is accomplished by understanding the interrelationships of composition, structure, properties, processing, and performance. Achieving this goal involves modeling, analysis, and computational simulations, validated and verified through sample preparation, characterization, and device demonstration. It requires new data analytic tools and statistical algorithms; advanced simulations of material properties in conjunction with new device functionality; advances in predictive modeling that leverage machine learning, data mining, and sparse approximation; data infrastructure that is accessible, extensible, scalable, and sustainable; the development, maintenance, and deployment of reliable, interoperable, and reusable software for the next-generation design of materials; and new collaborative capabilities for managing large, complex, heterogeneous, distributed data supporting materials design, synthesis, and longitudinal study.

The multidisciplinary character of this effort dictates the involvement of programs in the NSF Directorates of Mathematical and Physical Sciences, Engineering, and Computer and Information Science and Engineering. Three- or four-year awards totaling \$500,000 – \$1,500,000 for the award period are anticipated. To cover the breadth of this endeavor, it is expected that proposed projects are directed by a team of at least two Senior Personnel with complementary expertise.

Full Proposal Window: January 3, 2017-January 17, 2017

Proposals must be submitted by 5:00 pm proposer's local time on January 17, 2017.

MAJOR RESEARCH INSTRUMENTATION (MRI) PROGRAM

The NSF-wide *Major Research Instrumentation (MRI)* program provides funding for shared-use scientific instrumentation costing between \$100,000 and \$4 million. Proposals for funding amounts less than the lower limit are permitted for primarily undergraduate institutions (PUIs), but not for Ph.D. granting institutions. Ph.D. institutions are also required to provide a 30% cost-share using non-federal funds.

Currently each qualifying institution may submit up to three MRI proposals per competition on either of two tracks: (1) instrument acquisition requests between \$100,000–\$4 million or (2) instrument development proposals requesting between \$100,000–\$4 million. Up to two submissions are allowed in Track 1 and only one in Track 2. Consult with your institution's sponsored research office to find out how your institution may select the three proposals to be submitted to NSF.

The MRI Program conducts separate competitions for proposals from PUIs and from Ph.D. and non-degree granting institutions. Therefore, a proposal from a PUI competes only against proposals from similar types of institutions. To determine whether an institution is a PUI or a Ph.D. granting institution, the MRI Program requires a letter from the institution self-certifying its category following the NSF guidelines. If the certification is not included, the MRI Office will return the proposal without review. Historically, in the Division of Chemistry the number of proposals from PUIs has been similar to those from Ph.D. and non-degree granting institutions.

The MRI solicitation is revised periodically by the MRI Office. It is essential to conform to the terms of the solicitation to make sure your proposal is compliant, otherwise it may be returned without review. All proposals submitted to this year's MRI competition must also comply with the *Grant Proposal Guide (GPG)* that was released in January 2016. Keep in mind that supporting letters must use the text provided in a template described in the MRI solicitation. Therefore, any description of the science or outreach that collaborators will do must be part of the 15-page project description.

The Chemistry Division remains a strong supporter of multi-user instrumentation that improves chemistry research and education. As for any program, finding a good review home for a proposal is very important, because proposals should be reviewed by the scientists who would be most excited by the research. Please contact cognizant MRI program officers to discuss the best program fit for your proposal submission. Keep in mind that a proposal from PIs in a Chemistry Department should perhaps be reviewed by divisions and directorates other than Chemistry, such as the Division of Materials Research (DMR) or the Directorate for Biological Sciences (BIO).

Proposal Deadline: The current *MRI solicitation (NSF-15-504)* has a deadline of Wednesday, January 11, 2017; 5:00 pm local time.



BROADENING PARTICIPATION IN UNDERGRADUATE EDUCATION (REU)

The Chemistry REU Leadership Group (REULG) has prepared a webinar for the REU community entitled: “Broadening Participation in REU programs.” This short webinar discusses recruitment strategies, partnership development, participant selection, and mentoring diverse cohorts. The presentation can be found at the above website on the home page and under PI Resources. We hope that this webinar will provide helpful information for current PIs preparing for next summer and for prospective PIs preparing for proposal submission.

The Chemistry REU LLG is composed of a subset of REU Site Directors and is supported by a special grant from the NSF (CHE-1258759). Its mission is to improve the REU program through workshops, travel grants, symposia, and other innovative activities, and provide guidance to current and prospective REU Site PIs. The LG serves as an important advocacy group for the chemistry undergraduate research community nationwide.

Any opinions, findings, and conclusions or recommendations expressed in the webinar are those of the REU Leadership Group and do not necessarily reflect the views of the National Science Foundation.

EMPLOYMENT OPPORTUNITY: NSF PROGRAM DIRECTOR POSITIONS IN CHEMISTRY

CHE Program Directors have an unparalleled opportunity and responsibility to ensure NSF-funded research is at the forefront of advancing fundamental knowledge. In support of these goals, Program Directors are responsible for extensive interaction with academic research communities and industry, as well as interaction with other Federal agencies that may lead to the development of interagency collaborations. Program Directors solicit, receive and review research and education proposals, make funding recommendations, administer awards, and undertake interaction with research communities in the fields. They are also responsible for Foundation-wide activities and initiatives that together support NSF’s strategic goals to: 1) Transform the Frontiers of Science and Engineering, 2) Stimulate Innovation and Address Societal Needs through Research and Education, and 3) Excel as a Federal Science Agency. The position requires a commitment to high standards of intellectualism and ethical conduct, a considerable breadth of interest, receptivity to new ideas, a strong sense of fairness, good judgment, and a high degree of personal integrity.

CHE is currently searching for Program Directors with experience in the areas of organic synthesis, catalysis and surface chemistry as related to catalysis and nanochemistry. NSF is an equal opportunity employer committed to employing a highly qualified staff that reflects the diversity of our nation.

Please click here on the link for more information:

<https://www.nsf.gov/pubs/2016/che16001/che16001.jsp?org=NSF>.

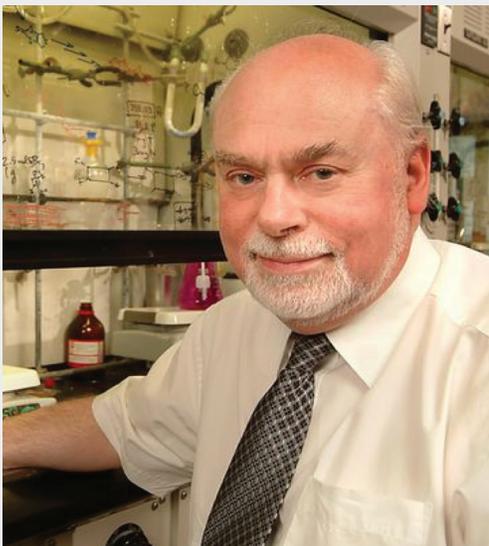
Formal consideration of applications will begin on November 29, 2016 and will continue until a selection is made.



CHE COMMUNICATION LISTSERV SIGN-UP

Stay informed with the latest news and topics of interest from the NSF Division of Chemistry: sign up for our mailing list by sending an email message with the subject line, ‘Subscribe to CHE’, to: cheminfo@nsf.gov. Please share this information with your colleagues!

2016 NOBEL PRIZE WINNER IN CHEMISTRY — SIR J. FRASER STODDART



Sir J. Fraser Stoddart, former Professor of Chemistry and Biochemistry at UCLA (1997-2008) and current the Board of Trustees Professor of Chemistry at Northwestern University, has been awarded the 2016 Nobel Prize in chemistry.

Stoddart shared the award with Jean-Pierre Sauvage of the University of Strasbourg in France and Bernard Feringa of the University of Groningen in the Netherlands. The Nobel committee lauded the trio for taking “molecular systems out of equilibrium’s stalemate and into energy-filled states in which their movements can be controlled.”

Stoddart’s areas of expertise include molecular electronics and artificial molecular machines. The former involves the use of molecules on the nanoscale as switches in computers and other electronic devices, while the latter uses linear motor-molecules in nanochemomechanical and nanoelectromechanical systems.

See announcement.

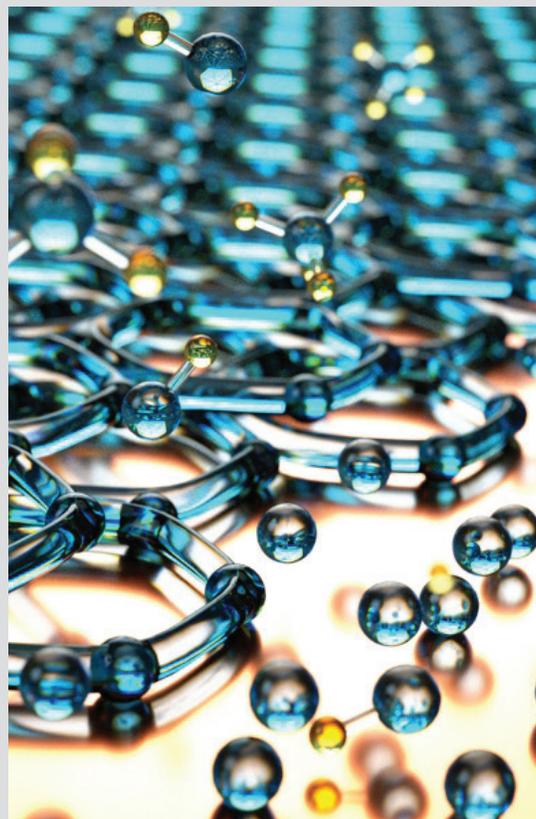
NATIONAL CHEMISTRY WEEK

THE ‘HIDDEN’ CHEMISTRY IN EVERYDAY LIFE

October 16, 2016 marks the start of National Chemistry Week, an effort to build awareness and promote the value of chemistry in our daily lives. From sea spray to plastics, understanding the chemical makeup and workings of everyday “stuff” unlocks the mysteries of our world and beyond.

For more than 60 years, the NSF has served as a global leader in supporting innovative research in the chemical sciences, from creating eco-friendly bioplastics to isolating and developing luminescent proteins for use in the biosciences. A look at some of the ways the NSF works to advance America’s competitive edge through chemistry researcher, education and literacy has been highlighted in the *October 17, 2016 issue of Discover Magazine*.

Pictured here: A representation of graphene molecules. Graphene, a one-atom thick layer of carbon, is one of the thinnest, strongest known materials. When stacked on top of one another, graphene layers form graphite, the stuff of pencil lead. NSF-funded research on graphene could one day yield lower-cost, ultra-low power, next generation electronics, perhaps with the unique ability to fold, bend and twist.



EARLY CAREER INVESTIGATOR WORKSHOP

The 2017 NSF-CHE Chemistry Early Career Investigator workshop will be held on March 20 - 21, 2017 in Arlington, VA. The workshop, primarily aimed at the early career faculty in chemistry from all types of academic institutions, will offer networking opportunities and insights into how to prepare more competitive proposals for funding from the NSF CAREER program, other NSF Chemistry programs, and other federal agencies. The workshop is expected to have 100 participants and will be open to junior faculty members conducting research in areas that are supported by the NSF Division of Chemistry and who have not served as a PI or co-PI on a federally-funded research grant (not including REU or MRI). Stay tuned for further details via email, including how to apply to attend the workshop.

UPDATE: REAL ID ACT – 28 NEW STATES AND TERRITORIES IMPACTED

NSF has been enforcing the Real ID act since October 2015, and currently visitors from four states and territories are impacted. On January 30, 2017 waiver extensions under the Real ID Act for 28 additional states and territories will expire. This means that visitors from these 28 states and territories will no longer be able to use their state/territory issued driver's license to access federal facilities. These visitors must provide alternative ID (e.g., passport, Federal PIV card, Global Entry card, etc.) or be escorted by an NSF employee.

The following list of states/territories have extensions until January 30, 2017:

Alaska	Louisiana	New Jersey	Pennsylvania
Arkansas	Maine	New Mexico	Puerto Rico
California	Massachusetts	New York	Rhode Island
Guam	Michigan	North Carolina	South Carolina
Idaho	Montana	North Dakota	Texas
Illinois	Northern Marianas	Oklahoma	Virgin Islands
Kentucky	New Hampshire	Oregon	Virginia.

The most up-to-date list of state and territory compliance can be found at this [Department of Homeland Security webpage](#). Frequently asked questions can be found [here](#).

AMERICAN CHEMICAL SOCIETY NATIONAL MEETING AND EXPOSITION (ACS)



The 253rd ACS National Meeting & Exposition will be held from April 2-6, 2017 at the Moscone Center, San Francisco, CA.

Chemistry staff members are scheduled to give presentations focused on NSF research and education programs as well as funding opportunities. Please see the ACS Technical Program for Details.

NATIONAL ORGANIZATION FOR THE PROFESSIONAL ADVANCEMENT OF BLACK CHEMISTS AND CHEMICAL ENGINEERS (NOBCCHE)

The Division of Chemistry attended NOBCCHE's 43rd Annual Meeting, November 8-12, 2016, in Raleigh, North Carolina.

Division of Chemistry exhibited at the Career Fair providing information on NSF's funding opportunities for students, such as: the Research Experiences for Undergraduates (REU) Program; the Louis Stokes Alliances for Minority Participation Program (LSAMP); and the Graduate Research Fellowship Program (GRFP).

CHE's staff members - Michelle Jenkins, Margaret-Anne Wampamba and Robert Cave were joined by PHY staff member - Michele Johnson - to give presentations on: (1) Preparing the next generation of scientists (2) Funding opportunities at the NSF and proposal strategies for young faculty and faculty at predominantly undergraduate institutions (3) Program structure and the lifecycle of a proposal. CHE also participated in the poster sessions and STEM Science Bowl Weekend Activities.

COUNCIL ON UNDERGRADUATE RESEARCH (CUR)

CUR Institute on Beginning a Research Program in the Natural Sciences at a PUI met in Arlington, Virginia, November 18-20, 2016. As part of the program, CUR organized a panel of NSF program officers to answer questions about their programs. The Program Directors then joined CUR participants for lunch. The Panel was held from 11 am - 12 pm on Saturday, November 19, 2016 at the Hyatt Regency Crystal City at the Reagan National Airport. Michelle Bushey represented CHE at the event.

PITTCON 2017 CONFERENCE

Representatives from the Chemistry Division (including the Chemical Measurement and Imaging (CMI) Program and Research Experiences for Undergraduates (REU) Program) will attend the March 5-9, 2017 Pittsburgh Conference (Pittcon) in Chicago, IL. CHE will host a networking session on Tuesday (March 7, 2017) from 2:00-3:00 PM to discuss finding the right programmatic home for your proposal, as well as research trends and cultures in various distinct, yet related, research sub-communities supported by the CMI program.

CHE will also present two posters on Wednesday morning (March 8, 2017). One will provide an overview of NSF programs and funding opportunities of particular interest to measurement chemists, including CMI, CAREER, Research at Undergraduate Institutions (RUI), Major Research Instrumentation (MRI), Computational and Data-Enabled Science and Engineering (CDS&E), BRAIN, Optics and Photonics, INFEWS, and Big Data. Outcomes of the recent midscale instrumentation workshops will also be noted. A second poster will focus on the area of broader impacts, including scientific impacts, educational innovation, novel and/or far-reaching plans for dissemination, outreach activities, and efforts to broaden participation (particularly efforts to engage women and members of groups traditionally underrepresented in the STEM disciplines). Both activities will provide opportunities for Pittcon attendees to meet NSF staff and to gain insights into the mechanisms of NSF funding. Please see the Pittcon 2017 technical program for exact times and locations.

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Chemistry Program Abbreviations			
Environmental Chemical Sciences (ECS)	Chemistry of Life Processes (CLP)		
CHE Centers (CCI)	Designing Materials to Revolutionize & Engineer our Future (DMREF)		
Chemical Catalysis (CAT)	Macromolecular, Supramolecular & Nanochemistry (MSN)		
Chemical Measurement & Imaging (CMI)	Undergraduate Programs in Chemistry (REU)		
Chemical Structure, Dynamics & Mechanisms (CSDM-A/B)	Chemical Theory, Models & Computational Methods (CTMC)		
Chemical Synthesis (SYN)	Centers for Chemical Innovation (CCI)		

DIVISION OF CHEMISTRY
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