

What's happening in the CSN?

July 1, 2019

Volume 4, Issue 5



Thank you to everyone for all your hard work in making our Year 4 Site Visit a great success!



Celebrations

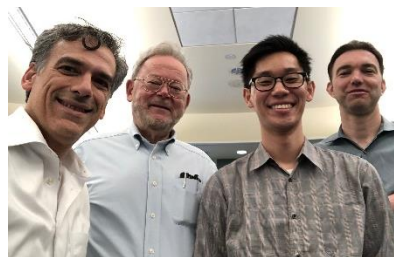
Welcome to New CSN Members

Welcome to all CSN summer undergrad researchers! Our SURE, REV, and other undergraduate students gathered in Minneapolis June 9-11 for a series of professional development and social activities. Participants at the meeting were: **Colleen Ahern** (Giraldo group), **Evan Bennett** (Klaper group), **James Brink** (Murphy group), **Larissa Davis** (Klaper group), **Seth Frand** (Feng group), **Liz Haberland-Ervin** (Hamers group), **Liz Hazen** (Fairbrother group), **Emma Henshaw** (Haynes group), **Elaine Kappel** (Haynes group), **Shiyun Lin** (Hernandez group), **Paul Lemke** (Feng group), **Jiana Lopez** (Rosenzweig group), **Christopher Lupton** (Hamers group), **Christopher Martinez** (Carlson group), **Joshua Melendez** (Mason group), **Mynneliz Sanchez** (Hamers group), **Falak Tawakalna** (Feng group), **Jiayun Zhong** (Hernandez group), and **Joanna Zienkiewicz** (Hernandez group). Special thanks to **Meghan Cahill** (Haynes group) who has been working as a Summer Program Assistant and helped with a significant portion of the meeting logistics and planning. We also want to welcome **William Beimers** (Pedersen group), **Kelly Lu** (Feng group), **Rachel Miles** (Orr group), and **Kevin Taylor** (Orr group) who are all doing CSN research this summer but weren't able to attend the Minneapolis meeting.



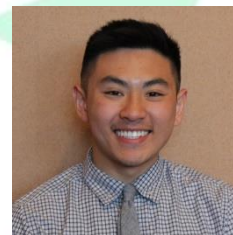
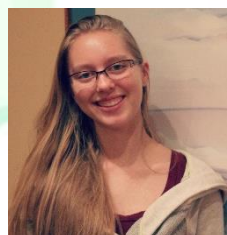
Good news!

Congratulations to **Dr. Gene Chong (Hernandez group)** for successfully defending his PhD thesis, entitled “Bottom-up simulations reveal mechanisms of nanoparticle surface layering and corona formation,” on June 12!

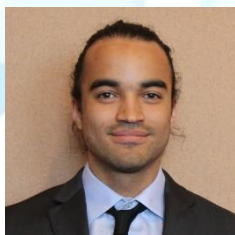
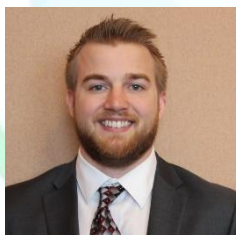
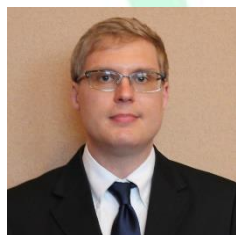


Jenny Klutts (Rosenzweig group) successfully defended her Master's thesis, entitled “Molecular level studies of the impact of poly (oxonorborenes) on *D. rerio* embryos,” in April. Congratulations Jenny!

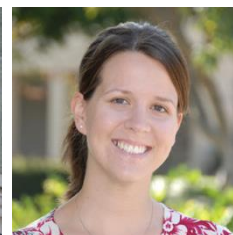
Congratulations to CSN undergraduate researchers **Eileen McIntire (Haynes group, left picture)** and **Thomas Pho (Feng group, right picture)**, who graduated from the University of Minnesota and Augsburg University, respectively!



Several CSN graduate students took another step towards their Ph.Ds! **Nicholas Niemuth (Klaper group)** passed his doctoral written and oral examinations. **Andrew Northwick (Carlson group)** passed his oral preliminary exam. **Zack Jones (Hamers group)** passed his Research Proposal (RP) admission to candidacy exam.



Congratulations and farewell to **Joe Bennett (Mason group, left picture)** and **Emily Tollefson (Carlson group, right picture)**, both postdoctoral researchers who have recently moved on from the CSN. Joe accepted a position as a Research Assistant Professor in the Natural Sciences Pre-Professorate Fellowship Program at UMBC, and Emily is starting her faculty position at the University of Puget Sound.



CSN alumni **Kyle Johnson** (Haynes group, left picture) just accepted a new position as a contractor for 3M and Pace Analytical. Congrats Kyle! Also, from CSN REV alumni **Eric Bias** (White group, right picture): "I'm working at Eric Mazur's Applied Physics lab on a nano-photonics project. It's nano and micro manufacturing cleanroom work, so they're training me at the cleanroom here and then I'm going to work with the research group... here's his [bio page](#) if you want to read about the research."



Sue Martin-Zernicke (UW-Madison Chemistry Department staff) has officially retired. Sue has been instrumental in helping the CSN organize meetings, arrange travel, and navigate the inner workings of the Cardinal Red tape at UW-Madison (a little official school color humor).

We have THREE weddings to celebrate this newsletter! **Laura Satterfield** (Rosenzweig group) married Craig Kesner on May 11. Most of the Rosenzweig lab attended and helped set up for the reception (left picture). **Curtis Green** (Hamers group) married Sarah Bessonny on June 15 (middle picture). Finally, CSN alum **Autumn Qiu** (Haynes group) married Leon Ma (right picture), also on June 15! Congratulations to all the newlyweds!



Milestones and Awards

Diamond Jones (Mason group) was awarded a GRC Carl Storm Underrepresented Minority Fellowship to attend the Environmental Nanotechnology GRC. Diamond was also awarded a Graduate Diversity Fellowship from the Graduate College at the University of Iowa. Congratulations Diamond!



Congratulations to **Stephanie Mitchell** (Carlson group) received a Doctoral Dissertation Fellowship, which is given to “the University’s most accomplished Ph.D. candidates” by the University of Minnesota! Read a News Release featuring Stephanie [here](#).



Several CSN participants received recognition from the UW-Madison Department of Chemistry this Spring. **Liz Laudadio** (Hamers group, top left) was chosen for the John and Beverly Schrag Analytical Chemistry Outstanding Peer Award, which celebrates a grad student

“committed to pursuing excellence in teaching/mentorship, leadership, scientific excellence, and community building.”

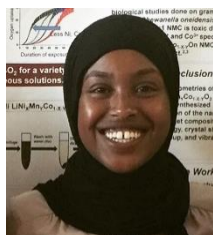
Kelly Zhang (Hamers group, top middle) and Liz Laudadio each received a Michael W. McCoy Memorial Scholarship (for grad students who “exemplify a love of life, love of people, and love of chemistry”). Finally, Managing Director **Mike Schwartz** (top

right) received a 2019 Graduate Student Faculty Liaison Committee (GSFLC) Mentor Award “to recognize graduate students, postdocs, and academic staff/faculty who have had a profound positive impact on the graduate students of the department.” See the news release for department awards [here](#).

Additionally, Hamers group grad students **Zack Jones** (bottom left) and Liz Laudadio each won Poster Awards at the UW-Madison Chemistry Graduate Student Poster Session, while **Paige Kinsley** (bottom right) and Liz Laudadio were awarded travel grants through the Student Research Grants Competition at UW-Madison. Congratulations to all!

Two **Haynes** group undergraduate researchers were recognized by the Department of Chemistry at the University of Minnesota this Spring (see the news release for department awards [here](#)). **Meghan Cahill** (left) was awarded the 2019 Lloyd W. Goerke scholarship, which recognizes a junior chemistry majors who has shown outstanding academic achievement. **Elaine Kappel** (right) was chosen for the 2019 Robert C. Brasted Memorial Fellowship, which is awarded to a junior who has expressed an interest in a teaching career in chemistry. Additionally, both Meghan and Elaine were among 10 chemistry students who received Summer Research Fellowships. Congratulations Meghan and Elaine!





CSN REU alum **Nafisa Ibrahim (Hamers group)** was selected as a 2019 fellow for the NSF Graduate Research Fellowship Program. Nafisa will be starting graduate school at the University of Illinois Urbana-Champaign this fall.

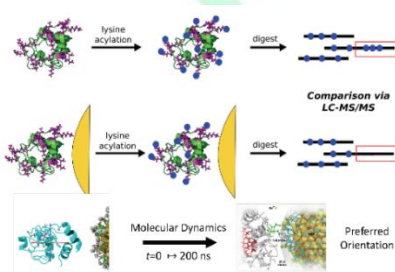
Cathy Murphy was elected to the American Academy of Arts and Sciences (see the full list of this year's awardees [here](#))! The American Academy of Arts and Sciences "recognizes the outstanding achievements of individuals in academia, the arts, business, government, and public affairs" (Cathy's class includes Michelle Obama!). Cathy said it's "really an honor for my research group over the years..." Cathy was featured in a University of Illinois [press release](#), and appeared in Champaign's [The News Gazette](#).



Christy Haynes won the Theophilus Redwood Award from the Royal Society of Chemistry "for interdisciplinary work at the interface of analytical, biological, and materials chemistry and skills for passionately and effectively communicating science to broad audiences." Christy was featured by the Royal Society [here](#), and in a University of Minnesota press release [here](#).

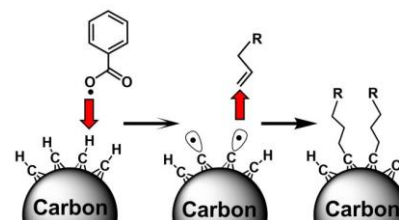
CSN Productivity

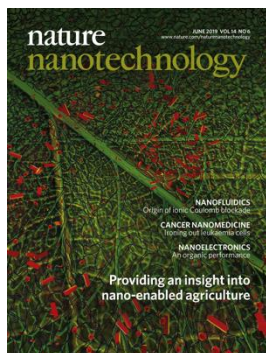
Find the most recent list of all center publications on the [CSN Google Scholar](#) page.



Emily J. Tollefson, Caley R. Allen, Gene Chong, Xi Zhang, Nikita D. Rozanov, Anthony Bautista, Jennifer J. Cerda, Joel A. Pedersen, Catherine J. Murphy, Erin E. Carlson and Rigoberto Hernandez (2019). Preferential Binding of Cytochrome c to an Anionic Ligand-Coated Gold Nanoparticle: A Complementary Computational and Experimental Approach. *ACS Nano*. 13 (6), 6856-6866. Read the online version [here](#).

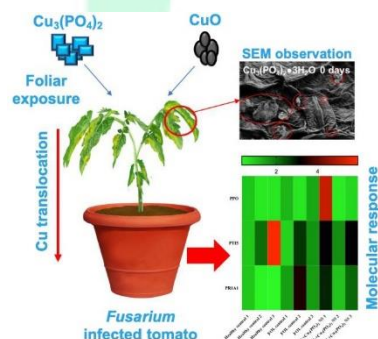
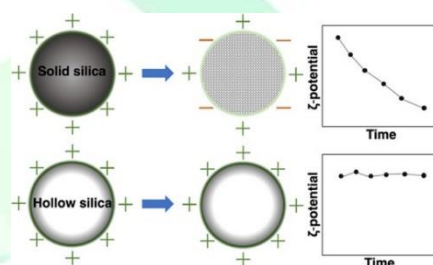
Yongqian Zhang, Ali A. Tamijani, Megan E. Taylor, Bo Zhi, Christy L. Haynes, Sara E. Mason and Robert J. Hamers (2019). Molecular surface functionalization of carbon materials via radical-induced grafting of terminal alkenes. *Journal of the American Chemical Society*. 141 (20), 8277-8288. Read the online version [here](#).





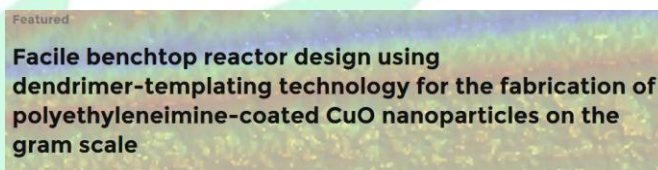
Melanie Kah, Nathalie Tufenkji and Jason C. White (2019). Nano-enabled strategies to enhance crop nutrition and protection. *Nature Nanotechnology*. 14 (6), 532-540. The article was featured in a [perspective](#) by CSN EAB member Greg Lowry, and was chosen for the *Nature Nanotechnology* cover! Read the online version [here](#).

Hyunho Kang, Davis J. Long and Christy L. Haynes (2019). Preparation of Colloidally Stable Positively Charged Hollow Silica Nanoparticles: Effect of Minimizing Hydrolysis on Zeta Potentials. *Langmuir*. 35 (24), 7985-7994. Read the online version [here](#).

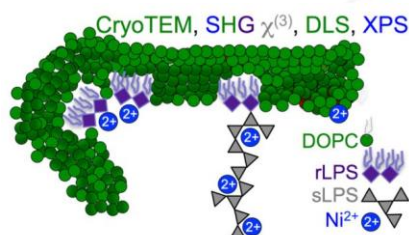
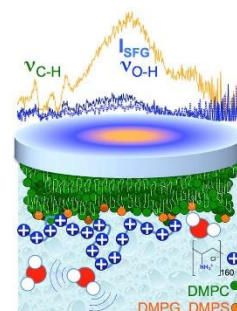


Chuanxin Ma, Jaya Borgatta, Roberto De La Torre Roche, Nubia Zuverza-Mena, Jason C. White, Robert J. Hamers and Wade Elmer (2019). Time-dependent transcriptional response of tomato (*Solanum lycopersicum* L.) to Cu nanoparticle exposure upon infection with *Fusarium oxysporum* f. sp. *lycopersici*. *ACS Sustainable Chemistry & Engineering*. 7 (11), 10064-10074. Read the online version [here](#).

Aiesha L. Ethridge, Miranda J. Gallagher, Natalie V. Hudson-Smith, Demetrius Finley, Ariful Ahsan, D. Howard Fairbrother, Christy L. Haynes, Robert J. Hamers and Michael L. Curry (2019). Facile benchtop reactor design using dendrimer-templating technology for the fabrication of polyethyleneimine-coated CuO nanoparticles on the gram scale. *Journal of Vacuum Science & Technology A*. 37 (4), 041402. The publication was highlighted as a Featured article, and can be read online [here](#).

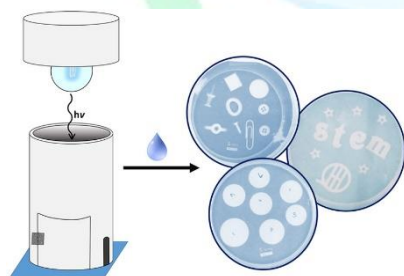
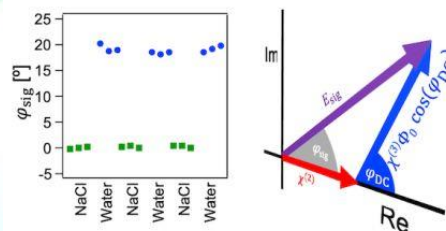


Naomi Dalchand, Merve Doğangün, Paul E. Ohno, Emily Ma, Alex B. F. Martinson and Franz M. Geiger (2019). Perturbation of hydrogen bonding networks over supported lipid bilayers by poly (allylamine hydrochloride). *Journal of Physical Chemistry B*. 123 (19), 4251-4257. Read the online version [here](#).



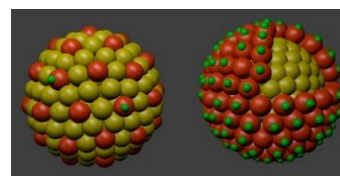
HanByul Chang, Karthikeyan Gnanasekaran, Nathan C. Gianneschi and Franz M. Geiger (2019). Bacterial Model Membranes Deform (resp. Persist) Upon Ni²⁺ Binding to Inner Core (resp. O-Antigen). *Journal of Physical Chemistry B*. 123 (19), 4258-4270. Read the online version [here](#).

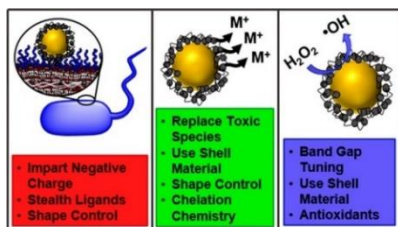
Paul E. Ohno, HanByul Chang, Austin P. Spencer, Yangdongling Liu, Mavis D. Boamah, Hong-fei Wang and Franz M. Geiger (2019). Beyond the Gouy-Chapman model with heterodyne-detected second harmonic generation. *Journal of Physical Chemistry Letters*. 10 (10), 2328-2334. Read the online version [here](#).



Natalie V. Hudson-Smith, Meghan S. Cahill, Nathan D. Klein, Miriam O. P. Krause and Christy L. Haynes (2019). A Macroscale Model for Hands-On Activities Demonstrating Transmission Electron Microscopy. *Journal of Chemical Education*, Accepted. Read the online version [here](#).

Daniel M. Hofmann, D. Howard Fairbrother, Robert J. Hamers and Catherine J. Murphy (2019). Two-Phase Synthesis of Gold-Copper Bimetallic Nanoparticles of Tunable Composition: Toward Optimized Catalytic CO₂ Reduction. *ACS Applied Nano Materials*, Accepted. Read the online version [here](#).





Joseph T. Buchman, Natalie V. Hudson-Smith, Kaitlin M. Landy and Christy L. Haynes (2019). Understanding Nanoparticle Toxicity Mechanisms to Inform Redesign Strategies to Reduce Environmental Impact. *Accounts of Chemical Research*, Accepted. Read the online version [here](#).

Other CSN Recognition

The 2018 CSN publication, “Using an environmentally-relevant panel of Gram-negative bacteria to assess the toxicity of polyallylamine hydrochloride-wrapped gold nanoparticles” ([link](#)) (*Environmental Science: Nano*) by Joe Buchman, Ali Rahnamoun, Kaitlin Landy, Ariane Vartanian, Lisa Jacob, Cathy Murphy, Rigoberto Hernandez, and Christy Haynes has been nominated for the journal’s Best Papers initiative.



Seth Frand’s (Feng group) recent blog post “[The Copper Touch](#)” was recognized as a [ScienceSeeker Editor’s Pick](#) for the week of June 10 - June 16.

Bob Hamers was quoted an article in Nature called “[Why scientists in the United States need better parental-support policies](#),” discussing the UW Chemistry Department’s forward-looking policy on parental support. Bob was the chair of the department when the policy was adopted.



Christy Haynes was interviewed for a recent article in the *Analytical Scientist*, entitled “[Confronting Challenges - Big and Small: Sitting down with...](#)” feature in the February 2019 issue ([link here](#) - free registration to view the full article). She discusses her sabbatical, her path to analytical science, some current issues and challenges in working with nanoparticles, and the importance of working on diversity in science.





Exploring Precision Agriculture: A Conversation with Jason White

Jason White was interviewed by Dr. Lisa Friedersdorf, Director of the National Nanotechnology Coordination Office (NNCO), for an episode of the Stories from the NNI Podcast called "[Exploring Precision Agriculture](#)." This episode is part of the 15 year celebration of the NNI.

Did You Know?

July 5th is the International Day of LGBTQ+ people in science, technology, engineering, and maths (STEM) ([#LGBTSTEMday](#)). From the website: "LGBTQ+ people in science, technology, engineering, and maths (STEM) continue to struggle to openly be themselves. We believe that a day of recognition goes a long way in helping raise awareness and increase support. It is an important component of the global push to increase diversity and inclusion in STEM."



CSN Alumnus **Eric Melby** (**Pedersen** and **Orr** groups) is biking to raise money for scholarships at Columbia Basin College (CBC), where he is currently a faculty member in chemistry. From the [fundraiser website](#): "...The only thing between Banff and the ultimate destination of Antelope Wells, New Mexico is 2,700 miles, 200,000+ feet of elevation gain, 32 crossings of the Continental Divide, and some of the most remote and scenic landscape on the planet. You can follow the adventure on Instagram (@drdirtcyclingscientist). Through this (crazy?) feat, Eric hopes to raise money to support students at Columbia Basin College through scholarships and research opportunities. Please consider making a donation to support these amazing students and further enrich their scientific experience."



Lab Exchanges

Diamond Jones and **Blake Hudson** (**Mason** group) recently visited the **Murphy** lab at the University of Illinois after presenting posters at the 30th Annual Workshop on Recent Developments in Electronic Structure. **Meng Wu** showed Diamond and Blake how he synthesizes 3-5nm gold nanoparticles and toured the facility where the Murphy lab does their NMR and IR experiments.



CSN Talks and Presentations

Liz Laudadio (Hamers group) gave a guest lecture on the chemistry of papermaking in her partner's summer course, "Papermaking: Depths of the Surface" at the University of Iowa! She spoke about the chemistry behind paper pigmenting and other paper treatments.



Cathy Murphy presented the Remsen lecture at the 47th Middle Atlantic Regional Meeting at the University of Maryland, Baltimore County. Cathy was the [recipient of the 2019 Remsen Award](#), presented by the ACS Maryland Section.

The 4th annual [Academic Leadership Training \(ALT\) Workshop](#) was held on February 24th to 25th at ACS Headquarters in Washington, DC (top image). The workshop provides leadership skills for mid-career faculty interested in roles as chairs, deans, provosts, or research center directors. **Rigoberto Hernandez** founded the ALT and was a facilitator at the 2019 workshop, and **Vivian Feng** was one of the participants. Rigoberto says that working with the CSN leadership has taught him a lot about effective practices that he can in turn disseminate to this audience. This is another way that our center is paying it forward!



Rigoberto was also an invited speaker at the Molecular Sciences Software Institute ([MoLSSI/Tapia](#)) Workshop at Rice University (bottom image).



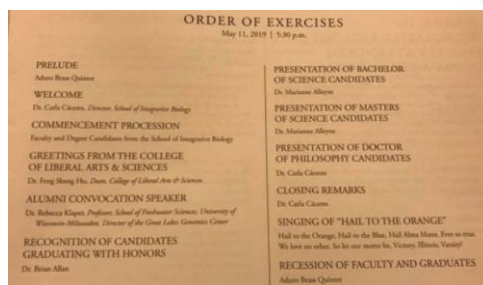
Miriam Krause presented a version of her "Simplified Doesn't Have to Mean Dumbed-Down" science communication workshop to a group of University of Minnesota Heisig/Gleysteen Summer Chemistry Fellowship students.





The CSN was well-represented at the Gordon Research Conference on Environmental Nanotechnology. In all, there were 28 current CSN participants, 3 CSN alumni, and several current or former collaborators who attended! **Rebecca Klaper** was the GRC Chair, while **Howard Fairbrother**, **Vivian Feng**, and **Nadine Kabengi** (CSN Affiliate) were discussion leaders.

Vivian Feng and **Rebecca Klaper** recently returned to their alma mater, the University of Illinois (apparently all roads lead to Urbana-Champaign these days – can you find the UIUC newsletter items?). Vivian presented at the Careers in Chemistry Symposium; from the DCGSAC [website](#): “Since this first symposium was held in 1999, DCGSAC has been dedicated to inviting highly qualified, relevant guest speakers who can inform and enlighten graduate students in chemistry to the many career options available to a PhD chemist.” Rebecca gave the Convocation speech for the School of Integrative Biology at her alma mater, the University of Illinois.



Christy Haynes gave three invited lectures at the University of Bath, Swansea University, and the National University of Ireland Galway about CSN work as part of a Royal Society of Chemistry award tour (see “*Milestones and Awards*” above).

Jason White has had a busy few months, including invited presentations at the US-EU 4.0 BILAT "Fostering EU-US Cooperation in Nanosafety" workshop, the Nanjing University School of the Environment, and the University of Connecticut Department of Nutritional Sciences. Jason also chaired two sessions and presented a talk at Nanotech-2019 for a symposium entitled "Environmental Health and Safety of Nanomaterials: A driving force for Successful Commercialization and Sustainability."



Latest from Sustainable Nano

See sustainable-nano.com for all the CSN blogs and podcasts.

CSN Blogs & Podcasts (since last newsletter)

- [What can big robots teach us about nanorobots?](#) by Kyoungtea Kim, March 29
- [Emerging Technology in Air Pollution Sensors: EPA Wildland Fire Sensors Challenge](#) by Takunda Masike (REV alum), April 5
- [Engineered gold nanoparticles can be like ice cream scoops covered in chocolate sprinkles](#) by Rigoberto Hernandez (public-friendly summary of Wu, et al. NMR Analysis of Ligand Environment in Quaternary Ammonium-Terminated Self-Assembled Monolayers on Gold Nanoparticles: The Effect of Surface Curvature and Ligand Structure, *Journal of the American Chemical Society*, 2019, 141(10), 4316-4327), April 15
- [Un Vistazo Rápido a la Química Computacional](#) (translation of “A quick peek into computational chemistry” by Andy Bei), April 18
- [Life is s'more fun with nanoscience](#) by Stephanie Mitchell, April 19
- [#InfertilityUncovered](#) by Sara Mason, April 26
- [Celebrating the 150th Anniversary of the Periodic Table: Nano-Style!](#) by Cathy Murphy, May 2
- [The Copper Touch](#) by Seth Frand, June 12

New CSN Capabilities

The first phase of the Nanodatabase User Study has been completed. Based on feedback from CSN participants in the study, there will be changes to the layout and terminology of the Nanodatabase to make it more user-friendly. We're still ironing out the details, but stay tuned for a new and improved Nanodatabase interface!

CSN researchers are working with a new Innovation Council Member, Patrick Heaney, president of Nanocrystalline Diamond Technologies, LLC, on a project evaluating formation of diamond-like carbon coatings on both metallic and non-metallic nanoparticles. NCD is a start-up company based on Madison. Hamers group members are working with Heaney to develop methods and protocols for characterizing the degree to which carbon coatings reduce reactivity of nanoparticles under atmospheric environmental exposure, such as warm humid air.

UW-Madison has officially been designated by the American Chemical Society as an inaugural “Bridge to the Doctorate” site in chemistry (along with Georgia Tech, in Chemical Engineering). The goal of the bridge program is to increase the number of students from under-represented group who successfully complete the Ph.D. degree in chemical sciences. The UW/ACS Bridge to the Chemistry Doctorate program provides a 2-year Research Master's Degree, along with intensive mentoring and professional development opportunities. A team of UW-Madison faculty and staff, lead by Bob Hamers (faculty co-lead) and Desiree Bates (staff co-lead) is responsible for carrying the UW program forward. The Bridge program is funded through an NSF INCLUDES grant to the ACS (more information can be found [here](#)).

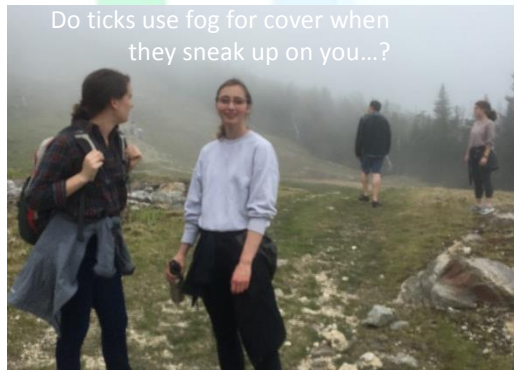
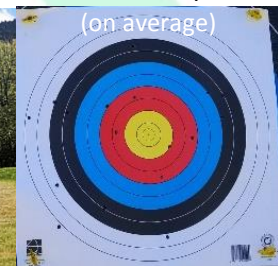
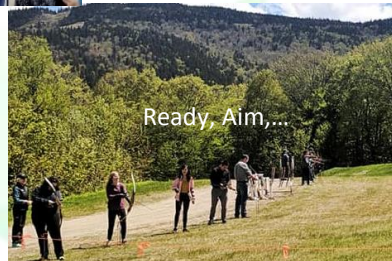


Fun!

At the GRC, sometimes it's hard being a scientist...



It's a Bullseye!
(on average)



Site Visit Decompression



Opportunities

Duke-Sloan Boot Camp

“Each September, The Duke-Sloan and Pratt School of Engineering Graduate Boot Camp brings to Duke talented undergraduates in chemistry, computer science, engineering, mathematics, physics, and statistical science. The Boot Camp will encourage participants to think critically about their research interests and skills, provide practical strategies for the graduate admissions process, and introduce participants to Duke’s Sloan departments. The 2019 Boot Camp will be held September 5-7. The application period will open soon and will close **July 12** at 5 p.m. Selected students will be notified by July 31.” <https://ucem.duke.edu/bootcamp/>

ACS Science Coaches

ACS Science Coaches is an opportunity for individual chemists to do outreach with local K-12 schools. The [website](#) states, “Science Coaches is a joint American Chemical Society (ACS) and American Association of Chemistry Teachers (AACT) educational outreach initiative dedicated to enhancing science skills in students across the United States. The program pairs chemists (coaches) with AACT teacher members in elementary, middle, and high schools. Coaches accepted into the program will have the opportunity to form a valuable relationship with a teacher by volunteering face-to-face over the course of a school year.” Applications are open through **September 1** for the 2019-2020 school year. **Leslie Sigmon** (Fairbrother group) has participated in the program and would be happy to talk with anyone who is interested in learning more.

Postdoc opportunity at NIST: Improving Measurement Assurance of In Vitro Toxicity Assays

[Position Description](#): “In vitro and acellular assays can play an important role in determining the potential toxicity of compounds to humans and ecological receptors. To establish the extent of the biological relevance of these assays in predicting the effects in physiological systems, a high-level of confidence in the precision and robustness of these assay measurements is required. This postdoctoral opportunity features an opportunity to comprehensively examine an in vitro assay or assays to improve the



repeatability and inter-laboratory agreement of the assay results. This could entail using cause-and-effect analysis to understand sources of variability in the assay, designing new plate layouts that include key process control measurements, and utilizing appropriate statistical analyses to understand the assay results and their uncertainties. This process should lead to improvements in the comparability and reproducibility of assay results within and between laboratories.” Contact Elijah Petersen at elijah.petersen@nist.gov for more information.

ABRCMS Conference offers travel awards for students AND faculty/postdoc researchers

The Annual Biomedical Research Conference for Minority Students (ABRCMS) offers travel awards for students (Rosenzweig REV student Hyo Park attended in 2016). This year’s conference is November 13-16 in Anaheim, CA. See [the website](#) for eligibility and application details. Deadline is **July 20** for mentors/judges and August 20 for students.

MERCURY Conference for Undergraduate Computational Chemistry next month

The Molecular Education and Research Consortium for Undergraduate computational chemistry (MERCURY) conference is coming up next month at Furman University in Greenville, SC, including a Molecular Sciences Software Institute (MoSSI) workshop July 16-17 and the general conference with undergrad poster session **July 18-19**. Deadline for registration, including poster abstract submission, is **July 5**. Details about the conference, including links for registration and poster submission are available [here](#). Contact Miriam if you want to attend and need CSN support!

Looking Ahead

Tuesday, July 2 at 3:00 pm Central. CCH Virtual Symposium

The upcoming CCHF Virtual Symposium features Frances Arnold, who won the 2018 Nobel Prize in Chemistry for her work on directed evolution of enzymes! Info for joining the symposium can be found [here](#).



Thursday, July 11 at 2pm Central: SURE/REV GRFP Webinar

This webinar discussing the Graduate Research Fellowship Program (GRFP) will be presented by staff from NSF. Specific login details coming soon.



Lost in Cyber-Space?

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Links to frequently requested CSN documents and information sources

For these documents and more, visit the [Center Resources page](#) on the [CSN website](#) (requires login though [Members page](#), contact [CSN Help](#) if you need help).

Newsletter submissions

Awards, highlights, lab exchanges, publications, FUN, etc: [link](#)

CSN Documents and Downloads

- Nanodatabase Login: [link](#)
- Nanodatabase Help page: [link](#)
- CSN calendar (RFA, All-hands, professional development): [link](#)
- Schedule a Zoom Meeting: [link](#)
- CSN Operations Guide: [link](#)
- CSN participants list (Names, group, and email addresses): [link](#)
- CSN Projects Documents: [CSN Projects](#) - [% Effort sheet](#)

CSN Reporting Forms

- Report lab exchange activities: [link](#)
- New CSN Presentations: [link](#)
- Report Outreach Activity: [link](#)
- CSN Safety Verification form: [link](#)
- CSN Shipping Addresses: [link](#)

CSN Feedback Forms

- SuggestionOx (completely anonymous comments/suggestions to CSN staff):
Director (Bob): [link](#)
Associate Director (Christy): [link](#)
Managing Director (Mike): [link](#)
E/O Director (Miriam): [link](#)
CSN Bimonthly Report Unanticipated Problems: [link](#)

Find the most recent list of all center publications on the [CSN Google Scholar](#) page.

Are there any links that you want added to the list above? Email Mike (mpschwartz@wisc.edu)

