

What's happening in the CSN?

October 25, 2019

Volume 5, Issue 1

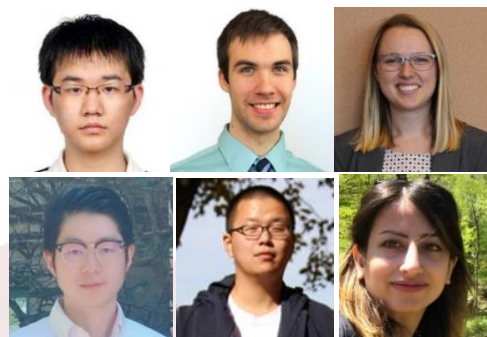


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Celebrations

Welcome to New CSN Members

Welcome to new grad students **Yinhan Wang** (Hernandez group, *top/left*) and **Austin Henke** (Hamers group, *top/middle*), and postdocs **Jenny Orbeck** (Hamers group, *top/right*), **Fangjia Li** (Orr group, *bottom/left*), **Yu Shen** (White group, *bottom/middle*), and **Nasim Ganji** (Pedersen group, *bottom/right*).



Good news!

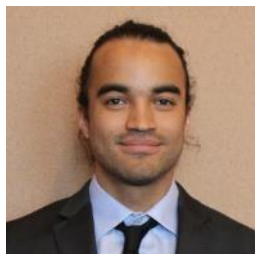
Congratulations to **Dr. Bo Zhi** (Haynes group) on the successful defense of his doctoral thesis, titled "Group IV Element-based Luminescent Nanoparticles: Synthesis, Environmental Impact Evaluation, and Bio-imaging Applications." Shortly, Bo will be departing for a position as a senior research scientist at Zeon in Japan.



Dr. Donald White (Curry group) successfully defended his thesis, titled "Synthesis, characterization, and application of cellulose nanofibrils for fabrication and biodegradable biobased materials." Donald will be moving to Houston for a position at Occidental Petroleum. Congrats Donald!

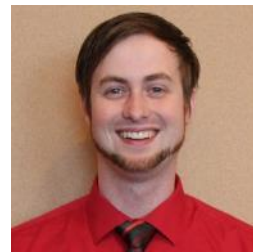
Liz Laudadio (Hamers group) earned her certification from the UW-Madison Delta Program in Research, Teaching, and Learning (shown with her committee after the defense). The certificate recognizes a significant commitment, effort, and achievement toward developing teaching knowledge and skills (full description [here](#)). Only about 100 certificates have ever been awarded!





Congratulations to **Zack Jones** (Hamers group) for being elected as the SPRING Board Executive Committee Liaison! Thank you to **Arielle Mensch** (Orr group) for serving as our previous SB/EC Liaison.

CSN Alum **Joe Buchman** (Ph.D. 2019, Haynes group) was recently hired as a Senior Chemist at Medtronic. Congratulations, Joe!



Congratulations to several current and former CSNers for recent marriages! **Austin Henke** (Hamers group) married Katie Buxton on October 13. **Falak Tawakalna** (Feng group) married Nazih Safi on July 27 (left, with Meghan Cahill, Vivian Feng, & Kelly Lu). CSN alum **Jared Bozich** (Ph.D. 2016, Klaper group) married Jackie Pryor on July 26 (right).

Milestones and awards

Congratulations to **Tana O'Keefe** (Haynes group) for being chosen as a trainee on the University of Minnesota Biotechnology Training Grant! As a trainee, Tana will have the opportunity to push the collaborative boundaries of her project and make new industrial connections.



Cathy Murphy's Fall travel schedule is even busier than usual, for very good reasons. First, she has been elected to the 2019 class of the [American Academy of Arts and Sciences](#). The Academy's website states, "The [new class of more than 200 members](#) recognizes the outstanding achievements of individuals in academia, the arts, business, government, and public affairs." See a University of Illinois press release [here](#).



Cathy was also awarded the 2019 MRS Medal (with Haimei Zhang of LBNL) "for pioneering the controlled synthesis of anisotropic metal nanostructures in transition metal nanoparticles and investigation of nanoparticle effects on and toxicity in biological systems" (read the University of Illinois press release [here](#)), which will be presented at the 2019 MRS Fall Meeting.



Cathy received the national award for Inorganic Chemistry from the ACS, which will be presented at the Spring 2020 ACS National Meeting in Philadelphia (see the C&E News announcement [here](#) and the University of Illinois press release [here](#)).

Finally, Cathy received the 2019 Linus Pauling Medal from the ACS Pacific Northwest local sections, which will be presented at the Pauling Medal Award Symposium at Oregon State University on Oct 26 (read the press releases from the University of Illinois [here](#)). Congratulations Cathy for these well-deserved honors!

Christy Haynes was recognized in *The Analytical Scientist* Power List 2019 Top 100, “showcasing the tremendous range of talent, ingenuity and leadership present across all corners of analytical science on a global scale.” See Christy’s bio from the [online list](#).

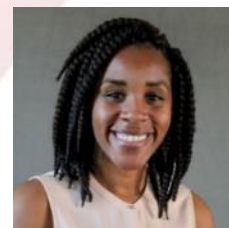


Christy also attended the Blavatnik Awards for Young Scientists gala in NYC, where she was recognized as a finalist for the award (see picture).



CSN affiliate **Wade Elmer** (Connecticut Agricultural Experiment Station) was designated a Fellow of the American Phytopathological Society for his contributions to the management of soilborne plant diseases. He received the award in Cleveland (see picture).

CSN alum **Alicia McGeachy** (Ph.D. 2018, **Geiger** group) recently served as the scientific advisor on an ACS Reactions video, “[How to Make Magnetic Slime](#).” She was consulted because of her Sustainable Nano blog post, [Breaking News: Slime Time Chemistry Slip-Up!](#)



Two recent Sustainable Nano blog posts have been recognized as Science Seeker Editor’s Picks: [The Copper Touch](#) by **Seth Frand** (Feng group) and [Can we make nanoparticles more sustainable?](#) by CSN Alum **Joe Buchman** (Haynes group).



Rebecca Klaper has been [named as an Associate Editor](#) of the journal *Environmental Science: Nano*.

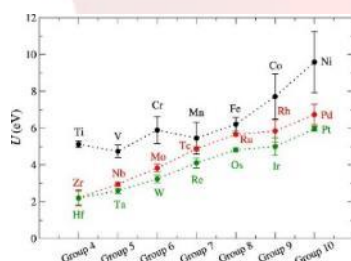
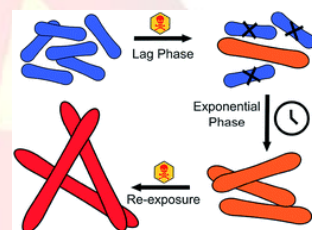


Becky Rodriguez (Haynes group) was awarded a University of Minnesota Excellence Fellowship. Becky has been a contributor to our [Nano-Sostenible](#) blog, and her commitment to science communication and inclusion, in addition to her excellent analytical sensor research, are part of why she has been recognized with this competitive award. Read the University of Minnesota press release [here](#).

CSN Productivity

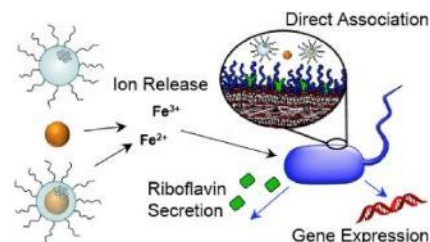
Find the most recent list of all center publications on the [CSN Google Scholar](#) page.

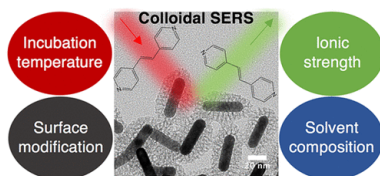
Stephanie L. Mitchell, Natalie Hudson-Smith, Meghan Cahill, Benjamin Reynolds, Seth Frand, Curtis Green, Chenyu Wang, Mimi Hang, Rodrigo Tapia Hernandez, Robert Hamers, Z. Vivian Feng, Christy Haynes and Erin E. Carlson, Chronic Exposure to Complex Metal Oxide Nanoparticles Elicits Rapid Resistance in *Shewanella oneidensis* MR-1. *Chemical Science*, **2019**. Read the online article [here](#).



Joseph W. Bennett*, Blake G. Hudson*, Irene K. Metz, Dongyue Liang, Sidney Spurgeon, Qiang Cui and Sara E. Mason (**2019**). A systematic determination of hubbard U using the GBRV ultrasoft pseudopotential set. *Computational Materials Science*. 170, 109137 (* contributed equally). Read the online article [here](#).

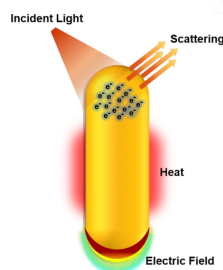
Joseph T. Buchman, Thomas Pho, Rebeca S. Rodriguez, Z. Vivian Feng and Christy L. Haynes, Coating iron oxide nanoparticles with mesoporous silica reduces their interaction and impact on *S. oneidensis* MR-1. *Chemosphere*, **2019**, 124511. Read the online article [here](#).





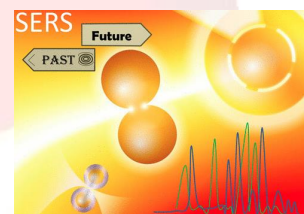
Hyunho Kang and Christy Haynes, Interactions between Silica-Coated Gold Nanorod Substrates and Hydrophobic Analytes in Colloidal Surface-Enhanced Raman Spectroscopy. *The Journal of Physical Chemistry C*, **2019**, 123 (40), 24685-24697. Read the online article [here](#).

Bo Zhi*, Xiaoxiao Yao*, Yi Cui, Galya Orr and Christy Haynes, Synthesis, applications and potential photoluminescence mechanism of spectrally tunable carbon dots. *Nanoscale*, **2019**, Available Online (*contributed equally). Read the online article [here](#).



Catherine J. Murphy, Huei-Huei Chang, Priscila Falagan-Lotsch, Matthew T. Gole, Daniel M. Hofmann, Khoi Nguyen L. Hoang, Sophia M. McClain, Sean M. Meyer, Jacob G. Turner, Mahima Unnikrishnan, Meng Wu, Xi Zhang and Yishu Zhang, Virus-Sized Gold Nanorods: Plasmonic Particles for Biology. *Accounts of Chemical Research*, **2019**, 52 (8), 2124-2135. Read the online article [here](#).

Judith Langer, et al, Present and Future of Surface Enhanced Raman Scattering. *ACS Nano*, **2019**, In Press. Read the online article [here](#).



Preprints

Ali Abbaspour Tamijani, Joseph W. Bennett, Diamond T. Jones, Natalia Cartagena-Gonzalez, Zachary R. Jones, Elizabeth D. Laudadio, Robert Hamers, Juan A. Santana and Sara E. Mason, DFT and Thermodynamics Calculations of Surface Cation Release in LiCoO_2 . *ChemRxiv*, **2019**. Read the online preprint [here](#).

Chang HanByul, Ohno Paul, Liu Yangdongling and Geiger Franz, *ChemRxiv*, **2019**, Direct Measurement of Charge Reversal on Lipid Bilayers using Heterodyne-Detected Second Harmonic Generation Spectroscopy. Read the online preprint [here](#).



CSN Media & Other Recognition

Stephanie Mitchell's (Carlson group) [paper](#) on microbial resistance to NMC (see "CSN Productivity" section above) has been getting plenty of publicity! The research involved four CSN labs and has been featured as a University of Minnesota [News Release](#), on [ScienceDaily](#), on the [NSF's website](#), and in the Minneapolis-based [Star Tribune](#).



Donald White (Curry group) was recently interviewed by [EmeraldPlanet](#), where he discussed the history of Tuskegee University, their new President, and sustainability research (Donald's interview starts around 17:30). He was also interviewed on the [Sustainable Agenda podcast](#), which is co-hosted by CSN Affiliate Mike Curry (see the "HBCU Student Contribution to Innovation and Diversity in the STEM Field").

Rebecca Klaper was on Capitol Hill recently, where she was a panelist in an event that discussed the benefits of federal research money for Wisconsin (left picture). Read about the event in this [UW-Milwaukee Press Release](#). You can listen to the panel discussion [here](#). Wisconsin Governor Tony Evers also visited the Klaper lab at UW-Milwaukee's School of Freshwater Sciences (right picture). The Governor's office press release about the visit can be read [here](#).



Rebecca was also featured on the cover of [Wisconsin People & Ideas](#), the quarterly magazine for the Wisconsin Academy of Sciences Arts & Letters. The issue included an article featuring Klaper group research, entitled "[Tiny Changes, Big Impact](#)."





Spectrum News 1 interviewed **Bob Hamers** and CSN collaborator **Desiree Bates** recently. They discussed a new master's degree in chemistry offered by UW-Madison, which is an inaugural site for the [ACS Bridge Program](#). Watch the interview and read more in the online article, entitled "Bridge program aims to increase underrepresented minorities getting PhD's" [here](#).

Letters & Science Magazine, a publication of the University of Wisconsin-Madison's College of Letters & Science, has featured CSN research in its Fall 2019 issue. The article "Small Wonders," by Aaron R. Conklin, discusses recent in the **Hamers lab** (**Jaya Borgatta's** project, in collaboration with **Jason White** and **Wade Elmer** at CAES) studying copper phosphate nanoflakes, their use in agricultural applications, and the ability to control the size, shape, and composition of nanomaterials. The magazine can be found online [here](#). Bob's company (Silatronix) was also featured in [C&EN's Business Roundup](#).



CSN members from the University of Minnesota (**Meghan Cahill, Miriam Krause, Stephanie Mitchell, Andrew Northwick, and Tana O'Keefe**) recently participated in a Market Science outreach event, presenting several nano-themed demonstrations to the general public at a farmer's market in Minneapolis. One benefit to

outreach in this context is that we could borrow vegetables from a neighboring vendor to highlight the different colors of nanogold samples (left photo).

The Connecticut Agricultural Experiment Station hosted the 109th annual Plant Science Day at Lockwood Farm in Hamden, CT in August. There were 973 attendees, including 140 children. The event included experimental plots/posters hosted by scientific staff, scientific lectures, and barn exhibits on topics of interest to the public, question/answer tents, and two outreach technical



demonstration locations. The CSN was featured prominently at the event, including a poster and field plot staffed by **Jason White**, **Wade Elmer**, and **Yu Shen**. All children were invited to participate in a “Passport” program that visited multiple experimental plots, included a demonstration of “Hands-on-Chemistry” presented by Dr. Shen where kids received a Sustainable Nano sticker in their passport books. The event was highlighted in the [Daily Nutmeg](#).

Did You Know?

CSN supported the 2019 [Midwest Retreat for Diversity in Chemistry](#) in July. The organizers wrote to acknowledge the sponsorship, saying “we would like to extend a sincere thank you for your generous contributions. With the support of Midwest universities and industries we were able provide 42 graduate students with a life changing professional event focusing on the advancement of underrepresented groups in chemistry.”

The Johns Hopkins Hub recently published an article, “[Her list gives a lift to minority students in STEM](#),” highlighting the work of PhD candidate Lavontria Miché Aaron, who has created a Google doc listing [Resources for POC in STEAM](#).

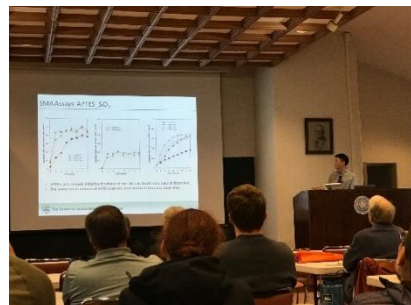
Mike Schwartz found out that one of his former collaborators, Prof. Sangeeta Bhatia (MIT), was elected into the National Academy of Medicine this week, making her one of 25 people who have been elected into all three National Academies (National Academy of Science, National Academy of Engineering, National Academy of Medicine). One of the others is Prof. Kristi Anseth (University of Colorado), Mike’s former postdoc advisor. Said Mike, “that’s pretty cool, eh?”

The Federation of American Societies for Experimental Biology has a nice one-hour webinar on [Achieving Work Life Balance in a Scientific Career](#) (Starts at 6:29).

MIT offers an online course on [Tools for Academic Engagement in Public Policy](#).

Lab Exchanges

Hyunho Kang (Haynes group) visited CAES for a lab exchange in October. During the visit, Hyunho worked with **Yu Shen**, **Peter Thiel** (shown with Hyunho, right picture), **Chuanxin Ma** (White group), and **Wade**



Elmer. Hyunho learned about preparing, growing, and harvesting plants in a greenhouse and prepared samples for ICP and gene expression analysis. He also gave a seminar while he was there (left picture).





Jenny Orbeck (Hamers group) recently visited the **Orr** lab at Pacific Northwest National Laboratory. While there she worked with **Arielle Mensch** for two weeks and learned how to sub-culture rainbow trout gill cells, perform cell viability assays after nanoparticle exposure, and collect fluorescence images of intracellular ROS responses using confocal microscopy. She prepared 60+ samples for ICP-MS, SEM and AFM analysis at UW-Madison over the next couple (several?) weeks. Jenny also spent some time with Orr group members, including Allen Eppendorf (shown with Jenny and Arielle, left picture), **Kevin Taylor**, and **Fangjia Li** (shown enjoying some Thai food with Jenny and Arielle, right picture).

From [Instagram](#): In July, **Diamond Jones** and **Blake Hudson (Mason group)**, grad students at the University of Iowa, visited the University of Illinois at Urbana-Champaign on a lab exchange. Pictured: Diamond and Blake with **Meng Wu (Murphy group)** in front of a super cool instrument for Atom Probe Tomography, which is used for 3D imaging and analysis of the chemical makeup of samples on scales smaller than a nanometer. The instrument works by evaporating atoms from the surface before analyzing their identity and locating where they came from on the sample.



Nicholas Niemuth (Klaper group) recently spent two weeks working with **Kelly Zhang (Hamers group)** at UW-Madison, carrying out electron paramagnetic resonance (EPR) experiments on chironomids exposed to LCO to determine the status of Fe-S centers in proteins of intact animals.

CSN Talks and Presentations

Miriam Krause co-organized a symposium at the fall ACS meeting in San Diego entitled “Leveraging Collaborative Research for Collaborative Outreach,” along with her counterpart at CaSTL, Danielle Watt. She also presented a talk as part of the symposium, entitled “Blogging as Collaborative Outreach.” Many other CSN members presented at ACS as well!



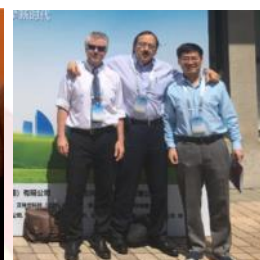
CCI Program Director Kathy Covert, CCE Managing Director Christine Conwell, Miriam Krause, CaSTL EOD Danielle Watt, CAICE EOD Jeanette McConnell, CCHF EOD Rachael Suzette Hall, and Mike Schwartz.





Christy Haynes visited Santa Clara University to deliver Jean Dreyfus Lectures. Christy gave two talks - one on work from the Center for Sustainable Nanotechnology and one on science communication. She also visited a classroom, poster sessions, lightning talks, and met with Santa Clara faculty and students.

Jason White has been busy! He presented invited talks at the 10th International Conference on Materials for Advanced Technologies in Singapore, the



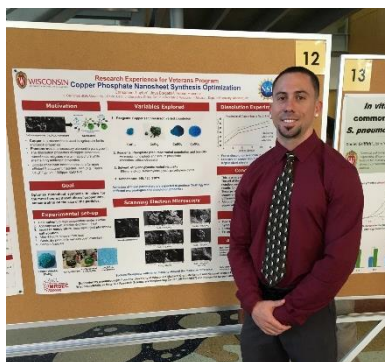
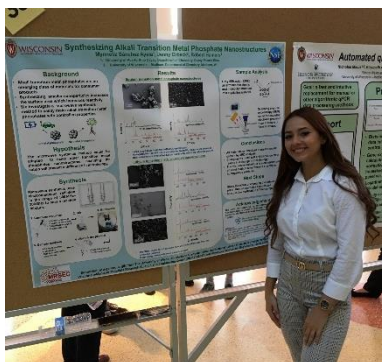
TechConnect World Innovation Conference and Expo in Boston, MA, the 14th National Conference on Environmental Chemistry at Nankai University in Tianjin, China, and the College of Environmental and Resource Sciences at Zhejiang University in Hangzhou, China. He was also interviewed by 3 graduate students from the University of Arkansas-Fayetteville via Zoom as part of the National Science Foundation I-Corp; the students asked questions about sustainable agriculture and food production and they discussed nano-enabled agriculture in the CSN.



Rigoberto Hernandez (shown with host Jackie Smith) visited Bowie State, where he presented CSN work and plugged the SURE/REV program.

Sara Mason recently presented a talk at the University of South Dakota, entitled "Modeling Metal Release from Complex Metal Oxides."





Hamers group SURE student **Mynneliz Sanchez Ayala** (left) and REV student **Christopher Lupton** (middle) presenting their research at UW-Madison. Mason group SURE student **Joshua Melendez** presenting his work at the University of Iowa (right).



Latest from Sustainable Nano

See sustainable-nano.com for all the CSN blog posts and podcast episodes.

CSN blog posts since the last newsletter

- [Are transistors getting too small? \(How small is too small?\)](#) by **Diamond Jones**.
- [Celebrating science at a science fiction convention](#) by **Miriam Krause**. This post includes public-friendly discussion of Hudson-Smith et al, [Macroscopic Model for Hands-On Activities Demonstrating Transmission Electron Microscopy](#). *J. Chem. Ed.*, **2019**, 96, 1377-1382.
- [Nanostructures in chameleons, damselflies, and peacocks \(oh my!\)](#) by **Jenny Orbeck**.
- [Combining the old with the new: using nanotechnology to enhance ancient medicines](#) by **Larissa Davis** (Klaper group SURE student).
- [How click chemistry is like playing with LEGOs](#) by **William Beimers** (Pedersen group SURE student).
- [Can we make nanoparticles more sustainable?](#) by **Joe Buchman**. This is a public-friendly summary of Buchman et al, [Understanding Nanoparticle Toxicity Mechanisms To Inform Redesign Strategies To Reduce Environmental Impact](#). *Acc. Chem. Res.*, **2019**, 52, 1632-1642.
- [Seeing the invisible](#) by **Xiaoxiao Yao**. This post includes more public-friendly discussion of Hudson-Smith et al, [Macroscopic Model for Hands-On Activities Demonstrating Transmission Electron Microscopy](#). *J. Chem. Ed.*, **2019**, 96, 1377-1382.
- [#NationalNanoDay Linkfest](#) by **Miriam Krause**.
- [It's National Chemistry Week! What do Marvelous Metals have to do with nanotechnology?](#) by **Miriam Krause**.



From Stephanie Mitchell: One of the press releases on the resistance story was translated into both Swedish and Dutch! After being totally smitten by the Dutch translation of nanoparticle, nanodeeltjes (pronunciation: nænəʊ de:ltjəs), I cruised through Google Translate to see how nanoparticle was translated into other languages. The Arabic one is fun too because it translates into “particles infinitely small/delicate.” I've attached a word cloud of the ones that Google Translate could generate with identifying languages. (Nanoparticle – I chose hexagon for NMC!).



Dr Don after his PhD defense
(or calling his shot before?)



(if you squint just right...)



Opportunities

ACS Webinar: Working Safely with Nanomaterials in the Laboratory: webinar from May 2019, recording [here](#). For more ACS professional development webinar archives, see [here](#).

Pathways to Science: Deadlines for many undergraduate scholarships and graduate fellowships are rapidly approaching, and these early fall deadlines often catch students off-guard. Students can use this searchable online directory to find STEM funding opportunities. The search page is [here](#), and they also have some nice resources on [how to build a strong application](#).

Merck Research Award - Deadline Dec 1: The [Merck Research Award](#) recognizes eight Individuals* who will present their research at an awards symposium held during the Fall ACS national meeting. Individuals* in their 3rd & 4th year of graduate school with a research focus in one or more of the following - Organic, Medicinal, Analytical, Chemical Biology, Computational or Structural Chemistry and related disciplines. Open to US citizens (studying anywhere) and Non-US citizens attending a graduate Program in the US or Canada. *Individuals* = this includes female-identified individuals and persons assigned female at birth (AFAB).*

CIBA/YCC Young Scientist Travel Award - deadline Nov 15: [This award](#) provides funding for young and early-career chemists to travel to and participate in an ACS national or regional meeting. YCC and the CIBA Foundation congratulate the outstanding past CIBA/YCC Young Scientist Travel Award winners. The award is intended for young scientists (under 35) who have post-doctoral appointments OR are within the first seven (7) years of their professional career. The application deadline for meetings occurring between January 1 and June 30 is November 15.

YCC Leadership Development Award - deadline Nov 1: [This award](#) covers the registration fee, transportation, lodging, and meals associated with attending the Young Chemist Leadership Development Workshop at the ACS Leadership Development Institute. Participants will explore the behaviors and characteristics exhibited by effective leaders at any level. Potential leadership opportunities, both within and outside the workplace, will be discussed and personal plans for improving leadership skills will be developed. Participants will also work alongside other ACS local, regional, and national leaders who are looking to strengthen their own leadership, management, and communication skills. This is an excellent opportunity to network and build the qualities that successful leaders possess! Eligibility criteria include: under 35 at the time of application, current graduate student, post-doc, OR within the first seven (7) years of a professional career, current ACS member.

Texas State University in San Marcos, TX has four postdoctoral-level positions related to instructional change in undergraduate STEM. The positions are associated with three recently awarded NSF grants: (1) [“Building Capacity: Creating Faculty-Student Communities for Culturally Relevant Institutional Change 2”](#) (2 positions); (2) [“Furthering the Work of Undergraduate STEM Transformation: Modeling Instructional Change Teams”](#); and (3) [“Developing Faculty Resources of Evidence-Based Practices that Improve Learning and Equity in STEM 1.”](#) One of the positions will primarily focus on programmatic work and may involve synergistic research activities. The other three positions will primarily focus on research and will involve synergistic programmatic activities as appropriate. Requirements for all positions: PhD in a STEM and/or Education field; commitment to counteracting systemic inequities in STEM; motivation and ability to engage with diverse students and junior researchers. [Read more](#).



Looking Ahead

CSN Professional Development: Designing Presentations that Communicate and Impress – Friday, November 8, 1:00pm Central. Presented by Dr. Anneli Joplin

This webinar will explain one approach to crafting sleek presentations that clearly communicate complex ideas. We will review key qualities of effective presentations, how to design meaningful visuals, and guidelines for displaying data in the presentation context. We will also delve into the reasoning behind some slide design choices, such as selecting a color scheme, formatting text and figures to ensure readability, and creating a personal template that saves you time.

oSTEM@UMN Graduate Student Panel – Tuesday, November 12, 7-8 pm Central

The University of Minnesota chapter of [oSTEM](#) is hosting a graduate student panel! Come ask LGBTQ+ graduate students about their experiences in graduate school! **Natalie Hudson-Smith** (Haynes group) will moderate and **Liz Laudadio** (Hamers group) will be a panelist. Online login: zoom.us/j/903837001

Project Summaries - Due Nov 15.

CSN faculty are currently working on our semi-annual project summaries. Final summaries, including SPRING sign-off for each project, are due on November 15.

All-Hands Meeting January 9-10 in Minneapolis.

Travel information will be coming soon for our upcoming All-Hands Meeting at the University of Minnesota. Plan for travel on Wednesday, January 8 and Saturday, January 11; the meeting will be all day Jan 9-10, and there will be an optional outreach event at the Science Museum of Minnesota on the morning of Jan 11. Plenty of winter clothing will be available on loan for those visiting from warmer climates!



Mike & Miriam preparing for the All-Hands meeting
(photo by [Alison Mickelson](#))



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)



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