

Superfund Research Program e-Posted Notes

October 7, 2016 (Issue 153)

HEADLINES

The SRP Welcomes New and Returning Small Business Grantees

The SRP is pleased to congratulate three small businesses on their recent SRP Small Business Innovation Research / Small Business Technology Transfer Research (SBIR/STTR) grants.

[Lynntech](#), led by David Battaglia, received a Phase II SBIR grant to continue work to develop an advanced osmosis non-fouling membrane technology for water purification and recycling. [Microvi Biotechnologies](#), led by Fatemeh Shirazi, was awarded a Phase I STTR grant to develop a new computational platform to predict key dynamics of bioremediation processes. [AxNano LLC](#), led by Alexis Wells Carpenter, a former Duke SRP trainee, received a Phase I STTR to develop controlled release polymer structures for in situ chemical oxidation of contaminated groundwater.

NIEHS Environmental Health Science FEST (& SRP Annual Meeting)

The first ever NIEHS Environmental Health Science FEST (EHS FEST) is just around the corner! This meeting is an opportunity for dialogue across the many different NIEHS grant programs and among our grantees, community, community groups, small businesses, and federal partners with a common interest in environmental health.

This event will take place December 5 – 8, 2016 in Durham, North Carolina. If you haven't done so already, please register for the meeting. There is also still time to submit your cutting-edge technology to the [Sensor and Technology Fair](#)! The deadline for submissions to the Sensor and Technology Fair has been extended to **October 21**.

The SRP Annual Meeting will be held all day on Monday, December 5 as part of the EHS FEST. Stay tuned for an email coming soon with more information about the SRP meeting on Monday.

Visit the NIEHS [Environmental Health Science FEST webpage](#) to register for the meeting and for information about the agenda and hotel accommodations. The hotels in the area are filling up

EMPLOYMENT OPPORTUNITIES

Program Officer in Data Science at NIEHS

The NIEHS Division of Extramural Research and Training (DERT), located in Research Triangle Park, NC, is recruiting a dynamic and experienced scientist with expertise in the application of data science tools and approaches to biomedical research. The advent of 'Big Data' brings special challenges and opportunities for environmental health sciences, as heterogeneous exposure and biologic data streams must be brought together to understand the interaction of genetic and environmental factors in complex human disease etiology. The candidate for this specific position will have responsibility for building and managing a portfolio of research grants in one or more specific areas of data science (e.g., bioinformatics tools and resources for toxicology), leading the overall development of NIEHS extramural initiatives to encourage greater data access and sharing, coordinating data science activities across the division, serving as a resource for data management issues within multiple collaborative research programs at NIEHS, and participating in trans-NIH data science programs.

Interested applicants can apply through [USA Jobs](#) under the Health Scientist Administrator posting. The

fast so book your hotel today!

SRP Risk eLearning Series: The Interplay Between Environmental Exposures and Infectious Agents

The SRP is hosting a [seminar series](#) to examine the interactions between environmental exposures and infectious agents in the development of disease. The series will highlight researchers from around the country who are exploring this relationship between environmental exposures, infectious agents, and immune response.

The first session, [Introduction to Infectious Agents and Their Interactions with Environmental Exposures](#), will be held Monday, **October 17 from 2 – 4 pm ET**. This session will introduce the topic and provide examples illustrating the interplay between environmental exposures and infectious agents. **Karl Western**, from the National Institute of Allergy and Infectious Diseases, will set the stage by providing an introduction on pathogens and immune response. **Rita Loch-Carusso**, a professor at the University of Michigan and project leader for the Northeastern University SRP Center, will discuss her work related to toxicant-microbial interactions in infection of human extraplacental membranes. Collaborators at the Northeastern SRP Center will briefly introduce ongoing work on interactions between hazardous substances and Zika virus incidence in Puerto Rico. **Thomas Kensler**, a professor at the University of Pittsburgh, will then discuss his research on the relationship between aflatoxins and hepatitis B in the development of liver cancer.

In addition to the first session, mark your calendars for the second session, [Environmental Chemicals and Immune Response](#), on **October 31 from 1 – 3 pm ET**, and the third session, [Co-Exposures in the Lung](#), on **November 7 from 1 – 3 pm ET**. Visit the [Risk eLearning website](#) for more information about each session, a list of presenters, and links to register.

Wetterhahn Awardee Nishad Jayasundara to Present at NIEHS

The Superfund Research Program invites you to join us for the Wetterhahn Award Lecture on **November 29 from 2 – 3 pm ET**. [Nishad Jayasundara](#), the 2015 Wetterhahn Awardee, will present a talk entitled, Evolutionary toxicology and environmental health: lessons learned from fish populations in polluted habitats, which will focus on his postdoctoral research at Duke University.

The event will be held on the NIEHS Campus in the Rodbell Auditorium. If you are local to the Research Triangle Park, NC, we encourage you to [attend at NIEHS](#). If you plan on attending, please contact Rosemary Moody (rosemary.moody@nih.gov) to let her know you will be there and please remember to bring your ID to enter the building.

The Wetterhahn Award Lecture will also be webcast. Visit the [NIEHS webcast page](#) to join the event remotely.

closing date is **October 12, 2016**.

NIDCR Opening in Bioinformatics, Computational Biology, and Data Science

The National Institute of Dental and Craniofacial Research (NIDCR) has an opening for a Health Scientist Administrator in their Bioinformatics, Computational Biology and Data Science Program. This Program focuses on challenges in integrating and interpreting diverse and high-volume data to better understand dental, oral, and craniofacial conditions and their health consequences. The Program portfolio includes bioinformatics, data science, computational biology and computational genomics, and systems biology approaches to dental, oral, and craniofacial research.

Interested applicants can apply through [USA Jobs](#) under the Health Scientist Administrator posting. The closing date is **October 12, 2016**.

NIH Common Fund Positions

The NIH Common Fund is also participating in global recruitment for non-supervisory GS15 Program Officers. The individual recruited will provide leadership to the Common Fund Physical Activity Program, Metabolomics, Illuminating the Druggable Genome, and possibly other programs. They hope to recruit someone with expertise in biochemistry, physiology, metabolism, drug development, or related areas. That said, given the time-limited nature of their programs, they are looking for individuals with adaptable interests and a desire to stretch their own scientific boundaries. Individuals may apply through [USA Jobs](#) under the Health Scientist Administrator posting. The closing date is **October 12, 2016**.

Postdoctoral Fellow – Silent Spring Institute and Northeastern

253rd American Chemical Society National Meeting & Exposition: Remediation and Detection Technologies Symposium

At the 253rd American Chemical Society National Meeting and Exposition in San Francisco on **April 2-6, 2017**, SRP Administrator Heather Henry and Souhail Al-Abed from the EPA Office of Research and Development are co-chairing a symposium, [From the Bench to the Field: Evaluating Innovative Remediation and Detection Technologies](#). The symposium will feature case studies applying cutting edge approaches and technologies for site management, both in terms of remediation and detection of hazardous substances. Special attention will be given to how to evaluate success of these technologies. This symposium will also feature innovative detection and monitoring technologies that aid in the evaluation of remediation effectiveness.

Abstracts are due October 31, 2016. Visit the [symposium flyer](#) for more information and the [ACS Meeting Portal](#) to submit your abstract. If you have questions about the session, contact Heather Henry (henryh@niehs.nih.gov, (919) 541-5330).

If you are interested in proposing a session for the fall 2017 ACS meeting, the call for Symposium Proposals is also open through **October 31, 2016**. Please submit your proposal using the [online form](#).

IN THE NEWS

NIEHS SRP News Stories

Take a moment to read about some of our colleagues' latest activities in this month's Environmental Factor, the NIEHS newsletter:

- [FDA ban on antibacterials in soaps informed by SRP research](#)

Visit the SRP news page for more stories about the Program:

- [Penn SRP Center Researcher and BoRit Community Advisory Group Receive EPA Award](#)
- [UA SRP Grantee Receives NSF Grant to Initiate Citizen Science Project](#)
- [Lili He Recognized as Member of the 2016 Talented 12 by the American Chemical Society](#)
- [UCSD Professor and Nobel Prize Winner Roger Tsien Dies](#)

Duke SRP Hosts Webinar on What's in my Foam Project

Since 2014, the Duke SRP Analytical Chemistry Core, led by Heather Stapleton, has been testing samples of polyurethane foam from household furniture items from around the United States for the presence of common flame retardants (FR). On Monday, September 26, the Research Translation Core, along

University

This two-year postdoctoral appointment is part of the NIEHS Training Program, "Transdisciplinary Training at the Intersection of Environmental Health Science and Social Science" (EH+SS), co-directed by Silent Spring Institute and Northeastern University's Social Science Environmental Health Research Institute (SSEHRI). They are seeking a candidate with doctoral training in endocrinology, developmental biology, or cancer biology with a focus on environmental health. Applicants should demonstrate a strong research record, as well as experience in statistics, biology, toxicology, chemistry, computer science, or informatics. R programming is an asset. This research fellowship is part of a unique opportunity to engage in environmental health - social science training. In addition to a strong background in her/his discipline, the candidate should have an interest in public health, community-based participatory research, and the social context of environmental health. See the [Northeastern Postdoctoral Fellow flyer](#) for more information on the fellowship and how to apply.

Postdoctoral Investigator – Woods Hole Oceanographic Institution

The department of Biology at Woods Hole Oceanographic Institution is seeking a Postdoctoral Investigator to join their team. This is a full-time position and is eligible for benefits. The initial appointment will be for one year with the possibility of an extension. The position is available immediately to participate in an NIEHS-funded project to characterize the role of DNA methyltransferases (DNMTs) in toxicant-induced alterations in DNA methylation. This project utilizes a

with Duke SRP researchers, held a webinar for all those participating in the furniture foam FR screening study and other interested individuals. The goal of this webinar was to answer frequently asked questions from participants, present methods for reducing personal exposure to FR, and inform study participants of current study findings. Over 180 people tuned in for the webinar, including representatives from government, industry, and academic and non-profit organizations. Presentation slides and a presentation recording are available on the [Duke SRP Center website](#).

Boston University Grantees Present at LINCS Consortium Meeting

SRP Boston University grantees David Sherr and Stephano Monti presented a poster of their collaborative work with the Broad Institute at the 2016 LINCS Consortium Meeting. The meeting was held September 19-20, at the NIH campus in Bethesda, MD. The [Library of Network-Based Cellular Signatures](#) (LINCS) aims to create a network-based understanding of biology by cataloging changes in gene expression and other cellular processes that occur when cells are exposed to a variety of perturbing agents. SRP Health Scientist Administrator Heather Henry participated remotely.

Partnering with US EPA to Improve Community Understanding of Metals Bioavailability

The UNC SRP Research Translation Core (RTC), along with the University of Arizona (UA) SRP RTC, recently released several innovative education materials on the bioavailability of arsenic and lead, two of the most common contaminants of concern found at Superfund National Priorities List sites. Both metals can vary in their bioavailability, or the amount of the metal that is absorbed into the body following skin contact, ingestion, or inhalation. It is important for communities impacted by metals contamination to understand the concept of bioavailability as it has implications for cleanup decisions. In addition to a [factsheet](#) on bioavailability, they recently released a [hands-on demonstration guide](#) and accompanying [slide set](#) designed to help residents of impacted communities understand the concept of bioavailability.

The materials were developed through UNC and UA SRPs' participation in the EPA pilot Partnerships in Technical Assistance Program (PTAP). See the [UNC SRP Center website](#) to learn more.

Stanton Featured in Story on Arsenic in Drinking Water on WABI TV

Dartmouth SRP Center Director Bruce Stanton was interviewed about arsenic in drinking water and treatment options on WABI-TV in Maine. The segment was done in cooperation with the Mt Desert Island Marine Biological Lab. Stanton discussed the health effects of arsenic and other potential contaminants in drinking

combination of developmental biology, molecular biology, and bioinformatics approaches to characterize the role of DNMTs in zebrafish. Some of the approaches include generation of knockouts using gene editing tools, molecular cloning, cell transfection and analysis of DNA methylation (bisulfite sequencing) and gene expression (RNAseq) datasets. For more information and to apply, visit the [Woods Hole Oceanographic Institution website](#).

Postdoctoral Investigator – University of Kentucky

A postdoctoral investigator position is available to participate in an NIEHS funded project within the University of Kentucky Superfund Research Center (UK SRC) in Bernhard Hennig's laboratory. The research in Hennig's lab focuses on the paradigm that nutrition can modulate environmental insults and utilizes a combination of cell culture and mouse models to explore molecular biology approaches to understand the regulatory interplay of healthful nutrition and inflammatory diseases linked to exposure to persistent organic pollutants. The postdoctoral scholar will be involved in research to explore molecular signaling pathways related to nutrition and toxicology with a focus on endothelial cell function and vascular biology or inflammatory diseases, keeping in mind possible multiorgan involvement in the etiology of cardiovascular diseases. The postdoctoral scholar also is encouraged to participate in mentoring graduate students. For more information, contact: Jennifer Moore, Program Coordinator, UK-SRC; email: j.moore2@uky.edu; phone: 859 218 1343.

Assistant or Associate Professor of Environmental & Occupational Health – Oregon State University

water, and the steps you can take to protect yourself. Visit the [WABI-TV website](#) to see the interview. Stanton also recently spoke to 80 people about arsenic in water at a [Science Café](#) for the Mt. Desert Island Community.

Halden Featured in PEPH Podcast

Rolf Halden, a professor at Arizona State University and former SRP individual research project (R01) grantee, was featured in a Partnerships for Environmental Public Health (PEPH) podcast for his work on the fate and health effects of the antibacterial agents triclosan and triclocarban. Visit the [PEPH website](#) to listen to the podcast.

TRAINEE SPOTLIGHT

Kimberly Danny, University of Arizona

Kimberly Danny is a Ph.D. student at the University of Arizona (UA) under the guidance of Mark Brusseau. Her research focuses on understanding how physical and chemical factors work together to immobilize uranium at a Superfund site. She is also working with the UA SRP Community Engagement Core to teach tribal communities about mining reclamation



At the [Lawrence Livermore National Laboratory \(LLNL\) Superfund site](#), Kimberly is evaluating 15 years of hydrogeologic and chemical data to better understand the processes that are immobilizing depleted uranium at the site. To test the hypothesis that chemical processes, such as adsorption to aluminum and iron oxy(hydroxide) surfaces, are immobilizing the uranium in ground water, she is evaluating data, creating a site conceptual model, analyzing bedrock cores from the lab, and constructing site-representative chemical equilibrium, kinetic, and transport models. The resulting multicomponent reactive transport model will serve as a framework that LLNL can modify as more data becomes available or that can be applied to other sites.

In addition to her research, Kimberly is also doing community outreach and engagement work with UA SRP Center Community Engagement Core leader Karletta Chief to increase tribal community knowledge on mining reclamation. She is developing an educational module that introduces reclamation of waste rock and mine waste. The modules are targeted to Tribal community college audiences and can be modified by the instructor. Because

As part of its strategic plan, Oregon State University (OSU) is building on its existing strengths in the core disciplines of public health and human sciences by hiring a new faculty member with expertise in Environmental and Occupational Health in an accredited College of Public Health and Human Sciences (CPHHS). This is a full-time, 9-month tenure-track appointment for an Assistant or Associate Professor of Environmental and Occupational Health located in Corvallis, Oregon. To see specific position announcements, job descriptions and requirements, and to apply, go to [Online Application System](#), posting 00755UF. **For full consideration, apply by January 15, 2017.** The anticipated start date is Sept. 16, 2017.

Research Position at UC Davis

UC Davis is looking for highly motivated researchers to contribute to a recently funded BRAIN Initiative project to develop ScFv and nanobody-based intrabodies against brain proteins. They are searching for researchers with experience in recombinant antibody technology, specifically for ScFvs and camelid nanobodies, to contribute to this project. This project will be based at UC Davis within the laboratory of Dr. James Trimmer, and will involve extensive interaction with a multi-institutional team. Preference will be given to researchers with experience in recombinant antibody technology. These positions are NIH-funded, and include highly competitive salary and fringe benefits. Applications will be accepted immediately until these positions are filled. Send cover letter highlighting relevant experience, and CV including names of three references to jtlab@ucdavis.edu.

CURRENT RESEARCH BRIEF

a number of the mines in the western United States are located on tribal lands, the University of Arizona is working to ensure that tribal members have a fundamental understanding of mining processes and potential impacts on their land, so that they can ask critical questions of mining companies, and federal, state, and tribal government agencies.

Kimberly has been a very active member of the American Indian Science and Engineering Society since 2007. Through the society, she has had the opportunity to network with other Native Americans in science and engineering around the country. She is also a Sloan Indigenous Graduate Partnership Scholar. Through this program, she was awarded a competitive fellowship that provides tutoring, funding, and mentoring to ensure the success of Native American graduate students.

When she isn't working on her research, Kimberly loves to take road trips to state and national parks. She also enjoys making cards and doing memory keeping, a form of scrapbooking. She also likes to sew in her free time and has made several full-sized quilts. The UA SRP Center also produced a [trainee video](#) about Kimberly.

HOT PUBLICATION

Pharmacokinetics of PAHs in Human Volunteers

Metabolism is a key health risk factor following exposures to pro-carcinogenic polycyclic aromatic hydrocarbons (PAHs). However, little data is available on the metabolism and pharmacokinetics in humans of high molecular weight PAHs, such as dibenzo[def,p]chrysene (DBC). In this [study](#), Oregon State University SRP Center researchers used a novel “moving wire” interface between ultraperformance liquid chromatography (UPLC) and accelerator mass spectrometry to detect and quantify parent DBC and its major metabolites in human volunteers who were orally administered a microdose of DBC. The major product identified in plasma from the subjects was unmetabolized DBC. They also identified major and minor metabolites in blood and urine. This is the first data set to assess metabolite profiles and associated pharmacokinetics of a carcinogenic PAH in human volunteers at an environmentally relevant dose, providing data to translate high dose animal models to humans to improve environmental health risk assessment.

Erin Madeen, a trainee at the Oregon State SRP Center and first author on the paper, learned to use moving wire technology as part of a [KC Donnelly Externship in 2013](#) at the Lawrence Livermore National Laboratory.

AWARD WINNERS

SRP Researchers Awarded ECHO Grants to Study Children's Health

Research Brief 262: **Environmental Exposures and AhR in Oral Cancer Development and Progression** (David Sherr, Boston University) is available on the [SRP Research Briefs website](#).

Past [Research Briefs](#) are available on the SRP website.

To receive the monthly Research Briefs in your e-mail, please send your e-mail address to heacockm@niehs.nih.gov.

If you have ideas for future Research Briefs, please submit them to heacockm@niehs.nih.gov.

SRP-SUPPORTED EVENTS

The 9th PCB Workshop: PCB Risk Evaluation and Environmental Protection

October 9 - 13, 2016

Kobe, Japan

[Website](#)

The Interplay Between Environmental Exposures and Infectious Agents Session I - Introduction to Infectious Agents and Their Interactions with Environmental Exposures

October 17, 2016, 2:00 – 4:00 pm ET

Webinar

[Website](#)

North Carolina Society of Toxicology Annual Meeting

October 25, 2016

Research Triangle Park, North Carolina

[Website](#)

The Interplay Between Environmental Exposures and Infectious Agents Session II - Environmental Chemicals and Immune Response

October 31, 2016, 1:00 - 3:00 pm ET

Webinar

[Website](#)

Society of Environmental

A number of SRP researchers were recently awarded an ECHO (Environmental Influences on Child Health Outcomes) grant from NIH to investigate how exposure to a range of environmental factors in early development influences the health of children and adolescents. The new NIH grants provide funding for cohort studies to analyze existing data as well as follow the children over time to address the early environmental origins of at least one of ECHO's health outcome areas.

UNC SRP Center Director Rebecca Fry, alongside principal investigator Michael O'Shea, will [enroll more than 50,000 children](#) from diverse racial, geographic, and socioeconomic backgrounds to become part of the ECHO consortium. Planned studies will focus on origins of health outcomes including upper and lower airway health and development, obesity, and brain and nervous system development.

Dartmouth researchers led by Dartmouth SRP Center investigator Margaret Karagas [will focus on their work with the New Hampshire Birth Cohort Study](#), a research project that since 2009 has been investigating how various environmental factors such as arsenic in the environment affect the health of pregnant women and their children in New Hampshire and Vermont.

Led by Northeastern SRP Center Director Akram Alshwabkeh, researchers [will build on the Northeastern PROTECT cohort](#) in Puerto Rico to investigate exposure to a complex mix of environmental stressors during critical fetal and childhood development periods.

Kim Anderson Receives Distinguished Professor Award

Oregon State University (OSU) SRP Center researcher Kim Anderson has been selected as the recipient of the 2016 OSU Alumni Association Distinguished Professor Award. This award recognizes a faculty member for superior academic performance, professional renown, and service to the University and to the public. The selection criteria for this award include but are not limited to: exceptional scholarly achievements and publications by the awardee; teaching ability, reputation, and quality by the awardee; contributions to University affairs; and also the faculty member's visibility and recognition in Oregon, the U.S., and the world.

Dartmouth SRP Researchers Awarded EPA Grant for Water Research

Dartmouth SRP researchers Celia Chen and Mark Borsuk and colleagues were recently awarded EPA funding to work with local communities to better understand the economic value of water quality. This research will help communities and environmental experts make more informed choices about the costs and benefits of actions that protect and improve the quality of their waterways. The overarching goal of their project is to develop a transferable framework for linking the health of small streams to water quality indicators, ecosystem services, and human preferences. See the

Toxicology and Chemistry (SETAC) North America 37th Annual Meeting

November 6 - 10, 2016

Orlando, Florida

[Website](#)

The Interplay Between Environmental Exposures and Infectious Agents

Session III - Co-Exposures in the Lung

November 7, 2016, 1:00 - 3:00 pm

ET

Webinar

[Website](#)

The 8th Princess Chulabhorn International Science Congress Environmental Health: Inter- linkages Among the Environment, Chemicals, and Infectious Agents

November 13 - 17, 2016

Bangkok, Thailand

[Website](#)

Wetterhahn Award Lecture:

Nishad Jayasundara

November 29, 2016, 2 - 3 pm ET

Research Triangle Park, North

Carolina

Webinar link coming soon

NIEHS Environmental Health Science FEST

December 5 - 8, 2016

SRP Annual Meeting: December 5

Durham, North Carolina

[Website](#)

The 17th International Conference of the Pacific Basin Consortium

March 1 - 4, 2017

New Delhi, India

[Website](#)

253rd American Chemical Society National Meeting and Exposition

SRP-Hosted Session: [From the](#)

[Bench to the Field - Evaluating](#)

[Innovative Remediation and](#)

[Detection Technologies](#) (Abstract

Deadline: October 31, 2016)

April 2 - 6, 2017

San Francisco, California

[Website](#)

EPA website for more information about their [new grant](#).

WEBINARS

Karst Aquifers – Water Quality, Vulnerability, and Public Health in a Complex Groundwater System

On November 7 at 1 pm ET, the Northeastern SRP PROTECT Center will host a webinar on [Karts Aquifers – Water Quality, Vulnerability, and Public Health](#). This webinar will feature **Geary M. Schindel, P.G.**, Chief Technical Officer and Director of Aquifer Science for the Edwards Aquifer Authority, and President of Karst Works, Inc. Visit the [Northeastern SRP PROTECT Center website](#) for more information

BD2K Guide to the Fundamentals of Data Science

The NIH Big Data to Knowledge (BD2K) program is pleased to announce The BD2K Guide to the Fundamentals of Data Science, a series of online lectures given by experts from across the country covering a range of diverse topics in data science. This course is an introductory overview that assumes no prior knowledge or understanding of data science.

The webinar series consists of weekly presentations from experts across the country covering the basics of data management, representation, computation, statistical inference, data modeling, and other topics relevant to “big data” in biomedicine. The series will have a new lecture every Friday at 12 - 1 pm ET for the rest of the year.

For up-to-date information about the series and to see archived presentations, visit the [BD2K Training Coordinating Center website](#).

FUNDING OPPORTUNITIES

Revolutionizing Innovative, Visionary Environmental Health Research (RIVER) (R35)

The NIEHS Revolutionizing Innovative, Visionary Environmental Health Research (RIVER) program seeks to provide support for outstanding investigators in the environmental health sciences, giving them intellectual and administrative freedom, as well as sustained support to pursue their research in novel directions in order to achieve greater impacts. The program seeks to identify individuals, regardless of career stage, with a track record of innovative and impactful research and combine their existing investigator-initiated research into a single seven-year award with direct costs of up to \$750,000 based on current NIEHS funding. Applications are due **October 24, 2016** by 5:00 pm local time of the applicant organization. For more information, visit the [RIVER Funding Opportunity Announcement](#).

Smart City Air Challenge

GET UPDATES FROM OTHER SRP GRANTEES

To see the latest SRP grantee publications, visit the [SRP publications page](#).

Visit the [SRP Materials for Grantees page](#) for information intended to assist grantees, such as SRP administrative supplements information, SRP best practices, NIEHS logo use, and the Data Collection Form.

The [SRP Events page](#) contains up-to-date SRP grantee and staff events.

The SRP website also has [Search Tools](#) to help you learn more about projects funded by the Program.

JOIN THE @SRP_NIEHS KNOWLEDGE NETWORK ON TWITTER

NIEHS uses Twitter, a popular social media tool, for information-sharing through Tweets. Many SRP Centers also have accounts, and it would be great if all participated! Follow us at [@SRP_NIEHS](#) to instantly hear news about the Program, noteworthy publications, events, and job opportunities for trainees.

CONTACT INFORMATION

Need to get in touch with an NIEHS SRP staff member? Check out our [Contact Staff](#) page.

EPA is challenging communities across the country to collect data using hundreds of air quality sensors as part of the Smart City Air Challenge. The agency is offering up to \$40,000 apiece to two communities to help them develop and implement plans for collecting and sharing data from air quality sensors. To qualify for the challenge, communities will need to submit plans for deploying hundreds of air quality sensors and managing the data they collect. The award money only covers part of the program costs, so communities will need to partner with sensor manufacturers, data management companies or others to get resources and expertise to implement their plans. After a year, EPA will evaluate the two projects and award up to an additional \$10,000 to the winning communities based on their accomplishments and collaboration. The deadline to apply is **October 28 at 4 pm ET**. See the [EPA Smart City Challenge website](#) for more information.

INTERAGENCY NEWS

Significant New Uses of Chemical Substances: Updates to the Hazard Communication Program and Regulatory Framework

EPA is proposing changes to the existing regulations governing significant new uses of chemical substances under the Toxic Substances Control Act (TSCA) to align these regulations with revisions to the Occupational Safety and Health Administration's (OSHA) Hazard Communications Standard (HCS), which are proposed to be cross referenced, and with changes to the OSHA Respiratory Protection Standard and the National Institute for Occupational Safety and Health (NIOSH) respirator certification requirements pertaining to respiratory protection of workers from exposure to chemicals.

EPA is extending the public comment period for its [proposed rule to update Significant New Use Rules \(SNUR\) regulations](#) until **October 26, 2016**. Learn more about the regulatory actions on the [EPA website](#).

The Arsenic Sensor Prize Competition

Interested in helping protect our nation's drinking water? EPA and the U.S. Bureau of Reclamation are joining forces to launch the Arsenic Sensor Prize Competition for the development of new technology to detect arsenic in water. Learn more about the upcoming competition in the blog, [We're Sensing a Change in Water Monitoring: Introducing the Arsenic Sensor Prize Competition](#). If you are interested in receiving notifications about the Arsenic Sensor Prize Competition, email PRIZE@usbr.gov with "Arsenic Sensor Prize Competition" in the subject line to join the email list. The official prize competition announcement will be posted on Challenge.gov.