

HEADLINES

Check Out the New Icons on the Grantee Webpages

We have added new icons to the SRP grantee webpages! You can now visit RePORTER pages, grantee websites, newsletters, and social media tools (Twitter, Facebook, and YouTube) by clicking on the icons. The grantee webpages are under [Who We Fund](#) and the new icons are on both the Center and individual project subpages.



Learn More About the Grantee



Notice a link missing? Email Sara Mishamandani (Sara.mishamandani@nih.gov) if you have a website that is not included on your NIEHS page.

SRP Wetterhahn Award Applications due August 1, 2014

The NIEHS Superfund Research Program (SRP) is pleased to announce acceptance of applications for the 17th Annual SRP Wetterhahn Award. The SRP established this annual award to recognize an outstanding graduate student or post-doctoral researcher that best demonstrates the qualities of scientific excellence exhibited by Dr. Karen Wetterhahn, who passed away in 1997. The award is open to ALL SRP trainees (an SRP trainee is either funded directly by an SRP grant (P42 or R01) or is conducting research/activities funded by SRP).

Applications are due August 1st, 2014. Please see the [Wetterhahn webpage](#) and [Application Guidelines](#) for additional information. You can also view bios from our past winners on our webpage. Please contact Danielle Carlin (Danielle.carlin@nih.gov) if you have any questions.

We look forward to seeing many great applications this year from our best SRP trainees!

SRP Center Funding Note

The SRP wants to make you aware that a new [Funding Opportunities Announcement](#) for Superfund Hazardous Substance Research and Training Program Multiproject Center grants (P42) has been released for support starting in 2015. Please also see the [accompanying notice](#).

IN THE NEWS

SRP in the Environmental Factor

This month, the NIEHS E-Factor featured three stories about the SRP and its grantees! Take a moment to read about some of our colleagues' latest activities.

- [Accidental oceanographer discusses aquatic models in exposure research](#)
- [International conference promotes environmental health research exchange](#)
- [SRP promotes innovative research tools for environmental remediation](#)

SRP Partners with EPA for Course on Porewater and Bioavailability

SRP Program Administrator Heather Henry co-organized a full-day training course with Matt Lambert from the EPA Office of Superfund Remediation and Technology Innovation on measuring bioavailability of contaminants at

EMPLOYMENT OPPORTUNITIES

Postdoctoral Research Associate - Northeastern University's Social Science Environmental Health Research Institute

Northeastern University's Social Science Environmental Health Research Institute (SSEHRI), in collaboration with the Department of Sociology and Anthropology and the Department of Health Sciences, seeks a postdoctoral research associate who studies ethical issues concerning emerging environmental contaminants and technologies. This one-year appointment is part of a Research Training Program, "New Directions in Environmental Ethics: Emerging Contaminants, Emerging Technologies, and Beyond," funded by NSF's Science Technology and Society (STS) Program.

Visit the [Northeastern jobs page](#) to apply. The position ideally starts September 1, 2014 but it is possible that a person earning their Ph.D. mid-year could have a January 1, 2015 start date. The position is open until filled.

Biology Research Positions at NIEHS

The National Institute of Environmental Health Sciences is recruiting for multiple full-time appointments at either the tenure-track or tenure-eligible level in the areas of molecular and cellular signaling, neuroscience, and developmental or reproductive biology. The successful candidates are expected to lead innovative, independent research programs on any fundamental aspect of research in the above three areas of interest which form a basis for understanding the effects of the environment on human health. Investigators in the NIH intramural program have no formal teaching duties and minimal administrative responsibilities.

The vacancies will remain open until they are filled. Visit the [NIEHS website](#) for more information.

sediment sites. During the session at the National Association of Remedial Project Managers (NARPM) Training Program, SRP grantees and other scientists provided an overview on using passive samplers for organic contaminants and other newly developed tools.



Heather Henry (second from left) with the instructors and development team for the NARPM course on porewater and bioavailability that included NIEHS grantees, EPA Remedial Project Managers, and other partners.

See the [Environmental Factor story](#) for more on the SRP at NARPM.

Dartmouth SRP Research Highlighted in NHPR Articles

New Hampshire Public Radio (NHPR) ran two feature articles addressing the issues of arsenic in well water in New Hampshire. In each article, they included information about Dartmouth SRP, where researchers are studying the health effects of arsenic and engaging communities to encourage well testing and treatment in the northeast. A study released by the U.S. Geological survey in June estimated nearly 50,000 people in Southeastern New Hampshire could be drinking water with elevated levels of arsenic.

Visit the NHPR website to read the [first](#) and [second](#) article in the series on the prevalence and health effects of arsenic and well water, and treatment available to reduce risk.

Hammock Featured in C&EN Article on Triclosan

UC Davis Center Director Bruce Hammock was highlighted in the feature story in the [June 23 issue](#) of Chemical and Engineering News. The article, Triclosan Under the Microscope, highlights the concerns about the safety and efficacy of triclosan in antibacterial consumer products. Hammock and others at the UC Davis SRP have provided evidence for endocrine disruption and other health effects of triclosan over the years.

Interesting work, Bruce!

Duke SRP Scientists Attend Furniture Flammability and Human Health Summit

Duke SRP grantees Heather Stapleton and Eileen Thorsos attended the 2014 Furniture Flammability and Human Health Summit in Atlanta, the second such conference about flame retardants, furniture, and human safety. Stapleton is conducting a variety of studies on exposure to flame retardant mixtures, which are released from furniture and other household items. (For more on Stapleton's research, see the [April Issue of the NIEHS Environmental Factor](#)). For more about the summit, visit the [Duke SRP Blog](#).

It is great to see SRP researchers reaching out to broad audiences outside of the research community. Nice work, Duke SRP!

TRAINEE SPOTLIGHT

Li Xiao, University of Kentucky SRP

Li Xiao, a Kentucky SRP trainee with PI Dibakar Bhattacharyya, successfully defended her dissertation on June 30! Through the last five years at Kentucky SRP, Xiao has performed extraordinary work on the development and application of functionalized membranes for water treatment.

Under the guidance of Bhattacharyya, Xiao developed and applied synthetic membranes for water remediation. She worked with nanoparticles to develop membrane platforms to remove chlorinated organic contaminants from water, including polychlorinated biphenyls (PCBs) and trichloroethylene (TCE), degrading the chemicals to nontoxic

Professor and Chair - Bioengineering Department at Northeastern

Northeastern University's College of Engineering seeks outstanding candidates for the position of Chair of Bioengineering.

Building on existing strengths, Northeastern University has recently formed the [Bioengineering Department](#). The Chair will be expected to provide a vision to direct the hiring of faculty, the creation of research foci, and the development of educational curricula. Qualified candidates will have demonstrated strategic vision through leadership of a well-established, well-funded and internationally recognized research program, as well as demonstrated excellence and significant experience in teaching (a minimum of five years) at both the undergraduate and graduate level. A doctoral degree in Bioengineering or another closely related field is required. For more information, visit the [Northeastern jobs page](#). Position is open until filled.

CURRENT RESEARCH BRIEF

Research Brief #235: "[Reducing the Risk of PCB-associated Type 2 Diabetes with Fruit and Vegetable Consumption](#)" (Lisa Gaetke, University of Kentucky SRP) is available online.

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

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

If you have ideas for future Research Briefs, please submit them to: beth.anderson@nih.gov.

SRP SUPPORTED EVENTS

Biomedical and Engineering Entrepreneurship Academy
Grantee event: Co-sponsored by the University of California, Davis SRP
July 9-11, 2014
Davis, California
[Website](#)

Latin American Conference on Compatible Mining: Protecting Vulnerable Populations and the Surrounding Environment
Co-Hosted by the University of Arizona SRP
Date: September 8-10, 2014
Location: San Luis Potosí, Mexico
[Website](#)

products. Her research integrating nanotechnology and membranes systems provides a novel approach for water detoxification technologies through the use of non-toxic nanoparticles and green chemistry approaches.

Xiao was recently the recipient of a 2014 American Institute of Chemical Engineers Separations Division Graduate Student Research Award, a highly competitive award with a global request for nominations. She was also recognized as an Outstanding Graduate Student from the University of Kentucky Chemical and Materials Engineering department.

Xiao has had two first-author papers, one in the *Journal of Applied Polymer Science* and one in the *Journal of Membrane Science*, and two book chapters in the area of advanced responsive membrane technology to toxic organic remediation from water. With Bhattacharyya, she also has a patent on SRP-funded work on a water purification device and method to decontaminate water using temperature responsive members. The patent was licensed by Ultura Inc., a company in California that specializes in high recovery membrane technology.



When she isn't in the lab, Xiao enjoys baking and gardening. For more on her SRP work, check out Xiao's [University of Kentucky Reveal outreach video](#) from 2012.

Starting in August, Xiao will be working at Ultura Inc. as a research and development research scientist. She will continue to advance functionalized membrane-related applications in water treatment and other environmental fields.

Congratulations and best of luck in your new career, Li!

HOT PUBLICATION

How Low Levels of Benzene Exposure Can Affect the Body's Biochemistry

Led by Martyn Smith, UC Berkeley SRP researchers characterized the changes in gene expression and biochemical pathways at low levels of benzene exposure. Using a novel non-parametric, data-adaptive model selection method to estimate the change with dose in the expression of each gene, the researchers found that benzene alters disease-relevant pathways and genes in a dose-dependent manner, with effects apparent at doses as low as 100 parts per billion in air. For more on the study, see the [article](#) in the journal PLOS One.

AWARD WINNERS

Sedlak Receives Clarke Prize for Excellence in Water Research

The National Water Research Institute (NWRI) announced that UC Berkeley SRP researcher David Sedlak is the winner of the Clarke Prize for excellence in water research. The Clarke Prize recognizes research accomplishments that solve real-world water problems. Sedlak was selected as the 2014 recipient because of his pioneering research on advancing the way water resources and urban water infrastructure are managed, including implementing water reuse and reducing the discharge of emerging contaminants (such as pharmaceuticals and personal care products). His work has served as the foundation for major policy and technical initiatives to reduce the effects of these contaminants and protect public health.

Congratulations, David!

Cormier Named Outstanding Postdoctoral Mentor

LSU SRP researcher Stephania Cormier received an Outstanding Postdoctoral Mentor Award by the University of Tennessee Health Sciences Center (UTHSC) and inducted into their Postdoctoral Mentor Academy. The PhDA Postdoctoral Research Trainee Outstanding Mentor Academy Award recognizes UTHSC faculty who demonstrate the highest level of skill and dedication in the mentoring of postdoctoral research trainees.

Congratulations, Stephania!

CALL FOR ABSTRACTS

The Eighth International PCB Workshop: PCBs in Schools, Exposures, Effects, Remediation and Regulation

A primary objective of the PCB Workshops is to provide a unique, single forum for the world experts on issues of analysis, fate and transport, exposure assessment, metabolism and disposition, toxicity, and public health policy to

The Eighth International PCB Workshop: Exposure Effects, Remediation, and Regulation Co-Hosted by the University of Iowa SRP and the Boston University SRP

Date: October 5-9, 2014

Location: Woods Hole, Massachusetts

[Website](#)

Fourth Conference of Prenatal Programming and Toxicity (PPTOX IV)

Date: October 26-29, 2014

Location: Boston, Massachusetts

[Website](#)

SRP Annual Meeting (Save the dates!)

Date: November 12-14, 2014

Location: San Jose, California

14th International Congress on Combustion By-Products and their Health Effects

Co-Sponsored by the Louisiana State University SRP

Date: June 14-17, 2015

Location: Umeå, Sweden

[Website](#)

OTHER CONFERENCES OF INTEREST

ISEE 2014

Date: August 24-28, 2014

Location: Seattle, Washington

[Website](#)

SETAC Asia Pacific and Australasia Conference

Date: September 14-17, 2014

Location: Adelaide, South Australia

[Website](#)

UPDATES FROM OTHER SRP CENTERS

The e-Posted isn't the only way you can find out about news and events from the SRP Centers. The [SRP Grantee Newsletters and Pages website](#) has links to SRP Center electronic newsletters and Facebook pages and the [SRP News Page](#) has recent grantee news. Check them out to see the latest SRP news!

JOIN THE @SRP_NIEHS KNOWLEDGE NETWORK ON TWITTER

NIEHS uses Twitter, an increasingly popular social media tool, for information sharing. A "microblogging" service, Twitter allows users to distribute substantive content through messages called Tweets. SRP has escalated its Twitter posts and hope that you will join us as a follower. You will get routine Program updates and announcements.

Several SRP Centers are leading the way, and it would be great if all

come together and learn from each other. The Eighth International PCB Workshop in 2014 will include presentations on basic aspects of PCB chemistry, biology and toxicology, as well as a new emphasis on specific sites that are highly contaminated, including New Bedford Harbor, Indiana Harbor, and the issue of PCBs in schools. There will be broad input from scientists both within and outside of the Superfund Research Program.

The Workshop will take place in Woods Hole, MA. **October 5-9, 2014**. Abstract submissions close on **July 25, 2014**. Visit the [PCB Workshop website](#) for more information and to register.

PPTOX: Environmental Stressors in Disease and Implications for Human Health

The Endocrine Society is sponsoring the fourth international summit of Prenatal Programming and Toxicity (PPTOX) – a conference series dedicated to cutting-edge discussion of environmental hazards during early life and long-term consequences. The conference will be held **October 26-29, 2014 at the Boston Marriott Long Wharf Hotel, Boston, MA**.

PPTOX is one of the premier international venues for scientists to evaluate current knowledge and guide forward momentum for this burgeoning field. The program includes topics of interest for a wide spectrum of professional backgrounds applicable to individuals interested in the developmental origins of endocrine diseases and mechanisms of developmental programming across the lifespan and between generations.

Submit your abstract online by August 18, 2014 to be considered for oral and poster presentations at PPTOX IV. For more on the meeting and to submit your abstract, visit the [PPTOX IV website](#).

WEBINARS

If Cells Could Talk, What Would They Tell Us About Chemical Exposure?

Join the University of Arizona SRP, University of California, Davis SRP and EPA Region 9 for a webinar focused on applications of cell-based bioanalytical methods.

This two-part seminar will feature Michael Denison of UC Davis SRP and Scott Boitano from Arizona SRP and will focus on applications of cell-based bioanalytical methods to better understand environmental toxicities.

The webinar is August 11, 1:00-3:00 pm ET. To register, visit the [Clu-In website](#).

INTERAGENCY NEWS

EPA Releases Final Risk Assessment on TCE

On June 25, the EPA released a final risk assessment for Trichloroethylene (TCE). The assessment identified health risks from TCE exposures to consumers using spray aerosol degreasers and spray fixatives. It also identifies health risks to workers when TCE is used as a degreaser in small commercial shops and as a stain removing agent in dry cleaning. See the [EPA press release](#) for additional information on the TCE risk assessment.

The Peer Review of the Draft Report on Carcinogens (RoC) Monograph on Trichloroethylene (TCE) will be on **August 12 at NIEHS in Research Triangle Park, NC**. For more on the meeting and to register to attend (in-person or to view the webcast), visit the [NTP meeting page](#).

participated! Follow us: [@SRP_NIEHS](#) to instantly hear about news around the Program, key publications, events, and job opportunities for trainees.

CONTACT INFORMATION

Information on NIEHS SRP Program Contacts can be found here: [NIEHS SRP Program Staff and Contacts](#).