

HEADLINES

2014 SRP Annual Meeting Information and Registration Now Online

Visit the [2014 SRP Annual Meeting website](#) for information about the meeting this year, including meeting registration, hotel reservations, and instructions to submit poster abstracts. This year's host, UC Berkeley, did a wonderful job designing the website and is hard at work to plan the meeting, which will be on **November 12-14 in San Jose, California**.

If you are submitting a poster abstract, please read the instructions carefully on the [Annual Meeting poster page](#). The posters will be a particularly important element of the annual meeting, and the abstract format is a bit different this year, as we are emphasizing understandable styles of communication.

See you at the meeting this year!

Porewater Concentrations and Bioavailability: How You Can Measure Them and Why They Influence Contaminated Sediment Remediation

NARPM Presents and [Risk e-Learning](#) are offering a four-part webinar series to help you understand why, how, and when to measure porewater concentrations and bioavailability as part of contaminated sediment assessment and management. Hosted jointly by the EPA Contaminated Sediments Forum and the SRP, this webinar series will also focus on the use of passive sampling devices (PSD) and what they tell us about contaminant bioavailability. Previously held as a course at the [National Association for Remedial Project Managers \(NARPM\) Training Program](#) meeting, the webinar series features experts in the field of porewater and bioavailability and includes lectures and case studies, including practical tips to maximize the utility of porewater and bioavailability measurements.

Session 1 - Introduction to Porewater, Bioavailability, and PSDs will be held on **October 6, 2014, 12:30-2:30 p.m. EDT**. For more information about all four parts in the series and to register for each webinar, visit the [SRP Risk e-Learning website](#).

Risk Assessment: How It Works and How Your Research Can Help

The Research to Risk Assessment Interagency Working Group (R2RA) Information Exchange Webinar, [Risk Assessment: How It Works and How Your Research Can Help](#), was designed for SRP trainees and grantees to help answer questions about what is involved in the EPA human health risk assessment process and how toxicological research, including study design and evaluation, is used in this assessment.

The webinar has been rescheduled to **Wednesday, November 5, 1:00-3:00 p.m. EST**. This is a great opportunity for you to learn how to make your research even more relevant to the protection of human and environmental health.

There is no registration for this event so please mark your calendars! More information and a link to the webinar meeting room are available on the [SRP R2RA website](#).

SRP at the EMGS Annual Meeting

We look forward to seeing SRP grantees at the [Environmental Mutagenesis and Genomics Society \(EMGS\) Annual Meeting September 13-17!](#) UC Berkeley SRP Center Director Martyn Smith will be receiving the Alexander Hollaender Award at the EMGS Banquet on September 16, and several SRP grantees will be presenting during the meeting. SRP Administrator Michelle Heacock will be attending, so if you will be attending and/or presenting, please let her know (heacockm@niehs.nih.gov)!

EMPLOYMENT OPPORTUNITIES

Baylor University - Assistant or Associate Professor of Environmental Science

Baylor University is seeking an Assistant or Associate Tenure Track Position in the Department of Environmental Science, beginning August 2015. The successful candidate will be expected to develop and maintain a nationally competitive research program while teaching at the undergraduate and graduate level. Immediate needs include environmental health science. Rank and salary are dependent on qualifications and experience. See the [Baylor University Department of Environmental Science website](#) for more information about the department and the position.

Deadline: October 24, 2014

Stowers Institute for Medical Research - Assistant Investigator in the Life Sciences

The Stowers Institute for Medical Research in Kansas City, Missouri is inviting applications for faculty positions at the level of Assistant Investigator in the Life Sciences, starting in 2015. The successful candidate is expected to develop a groundbreaking, innovative, and independent research program while complementing the institution's existing strengths in genetics and epigenetics, cell and chromosome biology, stem cells and regenerative biology, developmental biology and evolution, and biochemistry and neuroscience. Candidates must have a Ph.D. or equivalent degree and postdoctoral experience demonstrating innovation and excellence in their field. Candidates are expected to have a long-term vision for their research program and to actively contribute to the Institute's mission and collegiality. The position is fully funded throughout the candidate's appointment. See the [job announcement](#) for more information.

Deadline: October 31, 2014

Carnegie Mellon University - Assistant Professor (Tenure-Track) in Developmental Neuroscience

The Department of Psychology and the Center for the Neural Basis of Cognition at Carnegie Mellon University seek to fill a tenure-track faculty position in developmental neuroscience at the assistant professor level. A successful candidate will be committed to high-quality teaching and should have a research background that includes core areas within cognitive neuroscience, developmental neuroscience, or social neuroscience; a

Learn about Environmental Health Literacy at the NIEHS PEPH Meeting

The [2014 PEPH Annual Meeting](#) is just around the corner! This year's meeting will be held September 22-24 at NIEHS in Research Triangle Park, North Carolina and will focus on environmental health literacy, an important topic for all SRP grantees. The conference will include oral presentations, panel discussions, and a full day of hands-on workshops. Register for the meeting by **September 8, 2014**.

If you can't attend in person, organize a Watch Party and watch session presentations live via webcast! Local PEPH stakeholders and grantees can follow along as the meeting takes place and even contribute through social media. When the meeting breaks for discussion, we encourage you to address discussion topics amongst yourselves - just like the conference attendees.

Visit the [Watch Party Web page](#) for more information on how to organize a Watch Party in your city!

NIEHS SRP Staff Say Farewell to Summer Intern

Claire Yao, now a junior at Cornell University, spent her summer at NIEHS working with SRP staff on projects related to SRP environmental exposure assessment devices and epidemiology research. At Cornell, Yao is studying biological engineering with a focus on drug delivery methods and how they interact with biological systems. At NIEHS, she got to see research from the side of a program administrator as she assessed epidemiological studies and exposure detection device research within the SRP.



Claire (third from left) with NIEHS staff (from left) Danielle Carlin, Heather Henry, Michelle Heacock, Bill Suk, and Beth Anderson.

We enjoyed spending the summer with you and wish you the best of luck at Cornell, Claire!

IN THE NEWS

SRP in the Environmental Factor

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

- [ONES awardee honored by Oregon State University](#)
- [A new approach to determine cancer risk of chemicals](#)

Bar Harbor Summit Tackles Global Arsenic Problem

Scientists, consumer advocates, health officials, food industry representatives, educators, and policy makers developed actionable goals to reduce global exposure to arsenic in food and drinking water at the Mount Desert Island Biological Laboratory's [Human and Environmental Sustainability Summit](#), co-sponsored by the Dartmouth SRP, the University of Arizona SRP, and the organic medical nutrition company, Nature's One. During the Summit, forty participants committed to working toward specific goals to reduce exposure to arsenic, build awareness, and develop a committed network of stakeholders. For more about the summit, visit the [MDIBL website](#).

What an important summit and great collaboration, Dartmouth and UA SRP!

Great Showing at the ISEE Annual Meeting

SRP grantees could be found throughout the International Society of Environmental Epidemiology Meeting (ISEE) in Seattle, Washington, August 24-28. OSU SRP researcher Molly Kile, the co-chair of the ISEE conference, worked tirelessly to keep everything running smoothly as participants moved from one session to another. Program Administrator Danielle Carlin, Ph.D., gave an informative talk about environmental

strong grounding in theory; cutting-edge methods; and an interest in collaborations. We are especially interested in candidates with research interests in the neural basis of human learning, development, and plasticity. For more information, see the [job announcement](#).

Applications will begin to be reviewed on October 1, 2014.

Dartmouth College - Community Engagement Coordinator

The purpose of this position is to build bi-directional partnerships with diverse communities in Northern New England to enhance their ability to understand and address the health risks posed by toxic metals, especially arsenic and mercury; to reveal the information needs and research priorities of these target communities, as well as assist our partner organizations in building capacity to carry out their mission as it pertains to community awareness and reduction of risk; and to assist in the preparation of papers for publication in peer-reviewed journals. For more information, see the [job announcement](#).

CURRENT RESEARCH BRIEF

Research Brief #237: [The Flame Retardant Firemaster 550, Fat Cells, and Bone Health](#) (Jennifer Schlezinger, Boston University SRP) is available online.

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 beth.anderson@nih.gov.

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

SRP-SUPPORTED EVENTS

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](#)

PCBs in Schools - Still a Problem?
Grantee Event: Co-Sponsored by the Boston University SRP
Date: September 9, 2014, 1:00 p.m. EDT
Online
[Website](#)

2014 Citizen Science Workshop in Puerto Rico
Grantee Event: Co-Sponsored by the Northeastern University SRP
Date: September 11-12, 2014
Location: San Juan, Puerto Rico
[Website](#)

UC Entrepreneurship Academy

epidemiology and complex mixtures in the SRP. Several SRP investigators and trainees also chaired sessions and gave oral presentations, including K.C. Donnelly winners Shoreh Farzan and Andres Cardenas.

For those of you at the meeting, we enjoyed your presentations and the opportunity to see you!

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

In a two-part seminar, researchers from the University of Arizona (UA) and the University of California (UC) Davis Superfund Research Program (SRP) Centers described how they use cell methods to understand environmental exposures. UC Davis scientist Michael Denison, Ph.D., and UA scientist Scott Boitano, Ph.D., presented to an audience of more than 250, including stakeholders from state and local governments, consulting firms, academia, the U.S. Environmental Protection Agency (EPA), and other federal agencies. The presentations were very well received and resulted in a number of questions related to the methods and how the systems can be applied to detect and study different chemicals.

If you missed the webinar, an archive is now available on the [EPA Clean-Up Information website!](#) Check out the site to learn more about some interesting tools being used by SRP grantees to detect and measure chemicals in a variety of sources and to understand how chemicals affect the respiratory system.

Duke SRP Updates Wikipedia Page on a Common Flame Retardant

In a recent [entry](#) on the Duke SRP blog, ToxInsider, Duke SRP grantee Eileen Thorsos talks about working with Ph.D. student Laura Dishaw to update the Wikipedia page on chlorinated tris. Because the page originally had just three sentences, Duke SRP wanted to provide the public with sound information on chlorinated tris, a chemical commonly used as a flame retardant in furniture foam. The page now contains reliable information about where the chemical is found in the environment, human exposure routes, health effects, and more. Check out the new and improved [Wikipedia page](#) and watch for future posts from the Duke SRP about other Wikipedia updates!

Nice research translation, Duke SRP!

Katrina Waters Appointed to National Academies Study

OSU SRP grantee Katrina Waters was appointed to a new National Academies Study on Predictive-Toxicology Approaches. The study committee will evaluate modern toxicology approaches for use by the Department of Defense to predict toxicity in efforts to prevent debilitating acute exposures to deployed personnel. Waters was invited to be on the committee because of her strong expertise in microarray and omics data analysis. For more information, visit the [PNNL Laboratory Website](#).

Congratulations on the appointment, Katrina!

Thomas Bruton, University of California, Berkeley SRP

Thomas Bruton is a fourth year doctoral student in Civil and Environmental Engineering at UC Berkeley, under the guidance of UC Berkeley SRP project leader David Sedlak. Bruton is working with other UC Berkeley students and postdocs to plan a half-day trainee session focused on career development for the upcoming 2014 SRP Annual Meeting. Look for him at the meeting in November!

Bruton's research focuses on the use of persulfate as a chemical remediation agent for organic contaminants in groundwater. He began his doctoral work investigating persulfate treatment involving injection of persulfate solutions into contaminated aquifers, typically accompanied by injection of other chemicals, such as sodium hydroxide or chelated iron that are used to activate the persulfate and make it more reactive. Bruton and others in his research team showed that the addition of these activator chemicals may be unnecessary because persulfate can be activated by naturally-occurring iron and manganese-containing minerals in the aquifer. This finding could lead to persulfate treatment that is more efficient and less costly. The first of two papers on this subject has just been published in the journal [Environmental Science & Technology](#).



Grantee Event: Co-Sponsored by the University of California - Davis SRP
Date: September 16-18, 2014
Location: Davis, California
[Website](#)

The Meaning of a Superfund Site to the Community

Grantee Event: Co-Sponsored by the University of Pennsylvania SRP
Date: September 18, 2014, 3:00 - 4:00 p.m. EDT
Location: Philadelphia, Pennsylvania
[Website](#)

The Eight 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](#)

Risk e-Learning Webinar Series: Porewater Concentrations and Bioavailability Session I - Introduction to Porewater, Bioavailability, and PSDs

Date: October 6, 2014, 12:30-2:30 p.m. EDT
[Website](#)

Fourth Conference of Prenatal Programming and Toxicity (PPTOX IV)

Date: October 26-29, 2014
Location: Boston, Massachusetts
[Website](#)

Risk Assessment: How It Works and How Your Research Can Help

Research to Risk Assessment Interagency Working Group - Information Exchange Webinar
Date: November 5, 2014, 1:00-3:00 pm EDT
Online
[Website](#)

SRP Annual Meeting

Date: November 12-14, 2014
Location: San Jose, California
[Website](#)

Risk e-Learning Webinar Series: Porewater Concentrations and Bioavailability Session II - PSDs for Organic Contaminants

Date: November 19, 2014, 2:00-4:00 p.m. EST
[Website](#)

Risk e-Learning Webinar Series: Porewater Concentrations and Bioavailability Session III - Metals and PSDs

Date: December 1, 2014, 12:30-2:30 p.m. EST
[Website](#)

Risk e-Learning Webinar Series: Porewater Concentrations and Bioavailability Session IV - Case Studies: PSDs for Organic Contaminants

Date: December 15, 2014, 12:30-2:30 p.m. EST
[Website](#)

14th International Congress on

In the next phase of his research, Bruton is investigating whether chemical oxidants like persulfate can be used effectively to treat poly- and perfluorinated organic contaminants that are present in groundwater due to improper disposal of fire-fighting foams.

Before UC Berkeley, Bruton received an NSF fellowship to work with SRP grantee Rolf Halden at Arizona State University, where he completed a master's degree. Bruton's recent review on the [*Effect of Nanoscale Zero-Valent Iron Treatment on Biological Reductive Dechlorination*](#) came out of his time at Arizona State.

When he is not in the lab, Bruton likes to get out and take advantage of all the great scenery in northern California. He is an avid runner and hiker and is learning to surf. Above, you will see a photo of Bruton from a recent trip to Yosemite National Park.

The Endogenous Exposome

The concept of the exposome is a compilation of diseases and one's lifetime exposure to chemicals, whether the exposure comes from environmental, dietary, or occupational exposures, chemicals formed from normal metabolism, inflammation, oxidative stress, lipid peroxidation, infections, or other natural metabolic processes. In a recent [*review*](#) in the journal DNA Repair, UNC SRP researchers led by Jim Swenberg describe the concept of the endogenous exposome, the DNA damage that arises from the production of endogenous electrophilic molecules in our cells. The authors discuss methods to provide quantitative data on endogenous DNA damage and identify relationships between endogenous and exogenous exposures. The authors also describe how this knowledge of the endogenous exposomes helps us understand exposure responses for mutations and disease, and these data provide much needed information to impact quantitative risk assessments moving forward.

Stacey Harper Recognized with Outstanding Young Faculty Award

OSU SRP Training Core Co-leader Stacey Harper received the [*2014 Savery Outstanding Young Faculty Award*](#), presented each year to a faculty member of the OSU College of Agricultural Sciences to recognize outstanding contributions through teaching, research, international, and/or extended education activities. Harper has been an outstanding role model for graduate students and was brought into the OSU SRP Center as a leader when the Training Core was established in 2013. Since 2009, she has been an assistant professor of nanotoxicology in the Department of Environmental and Molecular Toxicology (EMT) and the School of Chemical, Biological and Environmental Engineering.

In addition to her most recent honor, Harper was the 2012 recipient of the L.L. Stewart Faculty Scholars Award, which recognizes an outstanding faculty member at OSU with \$30,000 in additional research support. Harper also received an [*Outstanding New Environmental Scientist \(ONES\) award*](#) from the National Institute of Environmental Health Sciences in 2011. For more on Harper and the award, visit the [*OSU SRP website*](#).

Congratulations, Stacey!

Akram Alshawabkeh Receives Prestigious ASCE Award

Northeastern SRP Program co-director and project leader Akram Alshawabkeh received the 2014 ASCE Thomas A. Middlebrooks Award with his colleagues Mishac Yegian, Ece Esellar-Bayat, and Seda Goyker. They received the award, which recognizes a paper contributing to geotechnical engineering, for their research on liquefaction mitigation by Induced Partial Saturation (IPS). This is a prestigious ASCE award within the field of geotechnical and geoenvironmental engineering, with a distinguished list of prior award winners.

Congratulations to Akram and colleagues!

Simonich Receives NSF Award

OSU SRP grantee Staci Simonich has been awarded a new [*3-year grant*](#) from the National Science Foundation entitled "Photochemical Aging of Asian Particulate Matter: Formation of Oxygenated Polycyclic Aromatic Hydrocarbons". The award is for just under \$300,000 over the funding period, with a start date of August 15, 2014.

Nice work, Staci!

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

Environmental Mutagenesis and Genomics Society Annual Meeting
Date: September 13-17, 2014
Location: Orlando, Florida
[Website](#)

SETAC Asia Pacific and Australasia Conference
Date: September 14-17, 2014
Location: Adelaide, South Australia
[Website](#)

PEPH Annual Meeting: Environmental Health Literacy
Date: September 22-24, 2014
Location: Research Triangle Park, North Carolina
[Website](#)

11th International Phytotechnologies Conference
Date: September 30 - October 3, 2014
Location: Heraklion, Greece
[Website](#)

Eighth Conference on Metal Toxicity and Carcinogenesis
Date: October 26-29, 2014
Location: Albuquerque, New Mexico
[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 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

Eighth Conference on Metal Toxicity and Carcinogenesis Call for Abstracts

This interdisciplinary and international conference will focus on mechanisms of metal-induced toxicity, strategies for intervention and prevention, and possible translation from basic studies into clinical or public policy. All interested individuals are invited to submit abstracts for oral and poster presentations.

The deadline for submitting abstracts is **September 30, 2014**. For more information about the conference and abstract submission, visit the [conference website](#).

Call for Poster Abstracts for the SRP Annual Meeting

The planning team encourages senior investigators, new investigators, and trainees (including post-docs and students) to present posters. We want to see the most important and cutting-edge work presented during the poster sessions.

The format for abstracts is a bit different this year, as we are emphasizing understandable styles of communication in all aspects of the annual meeting. Poster abstracts that are written in technical language and jargon must be accompanied by a "lay" abstract and title that would be understandable to an engaged lay audience. We are not requiring that the posters themselves be in non-technical language, though we encourage this.

Please see the [SRP Annual Meeting posters page](#) for more information about the poster abstracts and please read the instructions carefully before completing the submission form. The submission deadline is **October 15, 2014**.

GeoHealth Program Funding Opportunity

The Fogarty International Center, in partnership with the National Cancer Institute, the NIEHS, and CDC's National Institute of Occupational Safety and Health, issued two linked Funding Opportunity Announcements for the Global Environmental and Occupational Health (GEOHealth) Program. The overall objective of the GEOHealth program is to support the development of institutions in the Low- or Middle-Income Countries (LMICs) that will serve as regional hubs for collaborative research, data management, training, curriculum and outreach material development, and policy support around high priority local, national, and regional environmental and occupational health threats. Hubs are supported by **two coordinated linked awards to 1) an LMIC institution for research and 2) a U.S. institution to coordinate research training**. Together all regional hubs supported will form the GEOHealth Network, a platform for coordinated environmental and occupational health research and research training activities.

For more information, visit the [Frequently Asked Questions for GEOHealth Hubs](#) and the funding opportunities ([RFA-TW-14-001](#) and [RFA-TW-14-002](#)).

SOT Best Postdoctoral Publication Awards

The Postdoctoral Assembly (PDA) of the Society of Toxicology is pleased to announce the availability of the 2015 Best Postdoctoral Publication Awards. These awards recognize outstanding postdoctoral researchers who have recently published papers in the field of toxicology as a result of postdoctoral research. All qualified postdoctoral scholars are encouraged to apply.

Applications are due October 9, 2014. Visit the [SOT award website](#) for more information and application materials.

PCBs in Schools – Still a Problem?

Although toxic PCBs were banned from production in the U.S. over three decades ago, new research has found that PCBs produced as an unintended byproduct of some yellow dyes, inks, and paints have been detected leaching from a range of products, including those used in schools. Join SRP researchers Robert Herrick (Harvard), Keri Hornbuckle (Ulowa), and David Sherr (BU) for this back-to-school look at PCBs in schools, PCBs in construction materials, the human health concerns of PCBs, and what actions we need to take to

protect our children and others from exposures. The call is co-organized by the Collaborative on Health and the Environment (CHE) and BU SRP.

The call is on **Tuesday September 9, 2014 at 1:00 pm EDT**. For more information and to RSVP for the call, visit the [*CHE website*](#).