

HEADLINES

SRP Annual Meeting Next Week!

The SRP Annual Meeting is right around the corner and SRP staff is excited to see everyone in San Jose! The meeting begins on Wednesday, November 12 and concludes at 2:00 pm on Friday, November 14. Check out the [UC Berkeley SRP Annual Meeting website](#) for updated meeting agendas, information on signing up for group dinners, and additional information about airports and ground transportation to the Dolce Hayes Mansion. See you next week!

SRP Staff Welcomes Alicia Lawson and Bids Farewell to Beth Anderson

The SRP is pleased to announce and welcome Alicia Lawson, MPH, who comes from the National Institute on Aging. Alicia will take on a new role as a Health Specialist with the SRP. Alicia will be assisting with the SRP RT/CE network as well as assist in managing the MDB-SRP Communication and Information Transfer Initiative contract. Additionally, Alicia will be conducting various analyses on the SRP portfolio.

Beth Anderson, who has been with the SRP almost since its inception, officially retired from the NIEHS. Beth has made significant contributions to the SRP, including development, growth, and fostering of the Research Translation and Community Engagement Cores. She will be coming to the Annual Meeting next week so we look forward to seeing her there and we will miss her dearly!

Risk e-Learning Web Seminars: Porewater Concentrations and Bioavailability

The Risk e-Learning Webinar series continues in November and December with sessions to help you understand why, how, and when to measure porewater concentrations and bioavailability as part of contaminated sediment assessment and management. Thanks to everyone who participated in the first of the four-part Risk e-Learning webinar series that introduced porewater, bioavailability, and passive sampling devices. If you did not listen in, an archive of this webinar will be available on EPA's [Clu-in Training & Events Web page](#).

The next session will be held on **November 19, 2:00-4:00 pm ET** and will focus on passive sampling devices for organic contaminants. Registration for this webinar is available on EPA's [Clu-in Training & Events Web page](#). For more information about all four parts in the series and to register for each webinar, visit the [SRP Risk e-Learning website](#).

NIEHS Disaster Research Response Network

The National Institute of Environmental Health Sciences (NIEHS), in conjunction with the National Library of Medicine (NLM), in the past year has undertaken an initiative to improve their intramural and extramural research capabilities to perform timely environmental health investigations in response to disasters. As they move forward with their Disaster Research Response Project for the coming year, they are looking to actively engage NIEHS extramural grantees in an effort to create a national environmental health science network for disaster response.

NIEHS is inviting extramural grantees with expertise, leadership, past experience, or interest in disaster research-related issues to participate in the new **NIEHS Environmental Health Science Network Workgroup**. Network efforts will be limited to monthly meetings and a few hours periodically to evaluate various deliverables, such as websites, data tools, and strategies. If you are interested in the network, please contact Heather Henry (henryh@niehs.nih.gov) for more information.

Save the Date: NIEHS/SRP Mixtures Workshop

The NIEHS and the SRP are pleased to announce an upcoming workshop on Monday & Tuesday, **July 13 & 14, 2015** entitled "[Statistical Approaches for Assessing Health Effects of Environmental Chemical Mixtures](#) in

EMPLOYMENT OPPORTUNITIES

Stanford University - Tenure-Track Position in Neuroscience and Engineering

The Stanford Neurosciences Institute and the Department of Bioengineering at Stanford University invite applications for a tenure-track position as an assistant or untenured associate professor at the interdisciplinary interface between neuroscience and engineering, broadly defined. Applicants are expected to have a doctoral degree in neuroscience, bioengineering, biomedical engineering, physics, chemistry, computer science, electrical engineering, or any related discipline, and we encourage applications from physician-scientists. The search committee will begin reviewing applications on **November 10, 2014**, and the search will remain open until the position is filled. Visit the [Stanford jobs page](#) for more information.

University of California, Berkeley - Assistant Professor of Biostatistics

The School of Public Health at the University of California, Berkeley, invites applications for an Assistant Professor position in the Division of Biostatistics with a potential start date of July 1, 2015. Candidates must possess training and experience in both theoretical and applied statistics, and/or biostatistics, and have the potential to develop a research program involving contemporary public health and/or biomedical problems. Application deadline: **December 1, 2014**. For more information, visit the [UC Berkeley jobs page](#).

University of California, Berkeley - Assistant or Associate Professor of Environmental Health Sciences

The School of Public Health at the University of California, Berkeley, invites applications for an Assistant or Associate Professor position in the Division of Environmental Health Sciences with a potential start date of July 1, 2015. This is a state funded position with nine months of guaranteed salary support. Applications from candidates in all areas of Environmental Health will be considered. Application deadline: **December 1, 2014**. For more information, visit the [UC Berkeley jobs page](#).

University of California, Berkeley - Assistant or Associate Professor of Epidemiology

The School of Public Health at the University of California, Berkeley invites applications for an Assistant or Associate Professor position in the Division of

[Epidemiology Studies](#)" at NIEHS Main Campus, Rodbell Auditorium, Research Triangle Park, North Carolina, USA.

This workshop is one outcome from the September 2011 [NIEHS mixtures workshop](#), which brought together experts from epidemiology, toxicology, exposure science, risk assessment, and statistics to identify key challenges in environmental chemical mixtures research and suggest approaches for addressing those challenges. The [July 2015 workshop](#) will bring together mixtures experts with experience in developing and comparing experimental and statistical approaches to assess the human health effects of mixtures. [Registration](#) is required to attend this event. You are also highly encouraged to submit an abstract of your current statistical approach to be considered as a presenter (oral and poster). Space is limited, and priority will be made to those that submit an abstract of their statistical approach.

IN THE NEWS

SRP in the Environmental Factor

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

- [Bioregional planning to improve public and environmental health](#)

Visit the [SRP News Page](#) for more stories about the Program.

SRP at the Conference on Metal Toxicity and Carcinogenesis

SRP grantees and staff were well represented at the 8th Conference on Metal Toxicity and Carcinogenesis October 26-29 in Albuquerque, New Mexico. This interdisciplinary scientific conference is an international workshop that brings together a community of scientists in the area of metal toxicity and carcinogenicity from around the United States, and some from overseas.

SRP Program Administrator Danielle Carlin participated and gave a presentation on "Addressing the Complexity of Toxic Metals & Metalloids: New Findings from the NIEHS Superfund Research Program" and also served as a poster judge. Eric Ditzel and Tianfang Huang, graduate students at the University of Arizona (UA) SRP Center, both received travel awards for the meeting. During the meeting, Ditzel also won a poster award. Congratulations, trainees!

BU SRP Research Featured in the Washington Post

Boston University (BU) SRP Center researchers led by Ann Aschengrau found that exposure to tetrachloroethylene (PCE) is linked to increased risk for stillbirths and other pregnancy complications. The researchers surveyed women in eight Cape Cod towns who had water contaminated with PCE for nearly 20 years until it was discovered in their water supply in 1979. They found that pregnancies with high exposure to PCE were 2.4 times more likely to end with stillborn babies and 1.4 times more likely to experience placental abruption compared with pregnancies never exposed to PCE. See the [Washington Post](#) for more.

Penn SRP Center Website Launched

The University of Pennsylvania SRP Center recently launched their new website. The recently funded Center is studying asbestos exposure pathways that lead to asbestos-related diseases. Visit their new [website](#), to learn more about the SRP Center and its researchers.

In Case You Missed It: Flame Retardants Partnership Call Recording Online

On October 9, SRP researchers from Duke and BU discussed the health effects of flame retardants in a Collaborative on Health and the Environment partnership call. The call, "Home Invaders: Are flame retardants fattening us up and harming our bones," featured presentations by BU SRP Center researchers Tom Webster and Jennifer Schlezinger, and Duke SRP Center researcher Heather Stapleton. For more about the presenters and to access the slides and a recording of the call, visit the [Collaborative for Health and the Environment website](#).

Guerinot Quoted in Article on Rice and Arsenic

An article in The Scientist features Dartmouth SRP Center researcher Mary Lou Guerinot, who studies how metals, including arsenic, are taken up by rice and other plants. Guerinot discusses how rice plants that express high levels of the rice transporter protein *OsABCC1* or genetically engineered rice that overexpresses

Epidemiology, including non-communicable diseases, with a potential start date of July 1, 2015. They seek candidates who possess an interest in designing and conducting population-based cancer epidemiology. Application deadline: **December 1, 2014**. For more information, visit the [UC Berkeley jobs page](#).

Oregon State University - Assistant Professor of Environmental and Occupational Health

The Oregon State University School of Biological and Population Health Sciences invites applications for a full-time, 9-month tenure-track Assistant Professor of Environmental and Occupational Health position. Responsibilities of the position include establishing an independent research program through external funding, advancing the University's research agenda in the area of Environmental and Occupational Health/Safety, teaching undergraduate and graduate courses, advising graduate students, and providing service to the practice community and the field of public health. In order to receive full consideration for this position, your application must be received by **January 15, 2015**. For more information, visit the [Oregon State Jobs page](#).

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](#).

Oregon State University - Postdoc Scholar Position

A postdoctoral scholar position is open at Oregon State University in Environmental and Molecular Toxicology & Analytical and Environmental Chemistry, under the guidance of Staci Simonich. The successful candidate will mentor undergraduate and graduate students working in the laboratory, maintain and repair laboratory instrumentation, and conduct analytical chemistry, environmental chemistry, and/or environmental engineering research on organic compounds. The candidate should have experience in the statistical treatment of large datasets, the writing and editing of scientific manuscripts, and communication of scientific results to the scientific community. To apply, please send a cover letter, CV, and 3 references to Staci Simonich (staci.simonich@orst.edu). See the [OSU Open Postdoc Positions](#) page for more information.

the transporter may offer one of the simplest and most cost effective approaches to solve the problem of arsenic contamination of rice and rice-based products. To read more, see the article in [The Scientist](#).

BU SRP Researchers Team Up with Other Scientists to Study Breast Cancer and the Environment

Five renowned researchers, led by BU SRP Center Director David Sherr are joining forces to better understand the man-made chemicals that contribute to breast cancer. The researchers were awarded a three-year, \$5 million grant from ART beCAUSE, a breast cancer foundation, to examine whether commonly found chemicals are contributing to high nationwide rates of breast cancer. The team also includes BU SRP Bioinformatics Core co-leader Stefano Monti. An article on their work was featured in [The Boston Globe](#).

Sherr was also interviewed in the [Daily Free Press](#) for his work related to understanding the link between environmental chemicals and breast cancer. He discussed his research to evaluate common chemicals contributing the breast cancer incidence and what happens to cells when they are exposed to these chemicals.

UC Berkeley Study Links Arsenic to a Drop in Breast Cancer Deaths

UC Berkeley SRP Center researchers led by Allan Smith, with the Pontifical Catholic University of Chile, linked arsenic in drinking water to a 50 percent drop in breast cancer deaths. [The study](#), published this month in the open-access journal EBioMedicine, presents results of breast cancer mortality data from a region in Chile where residents were inadvertently exposed to high levels of arsenic, a naturally occurring element found in many minerals. Instead of an increase in mortality, as with many other cancer sites, the study found that breast cancer deaths were cut in half during the period that coincided with high arsenic exposure. Visit the [UC Berkeley News Center](#) to learn more about the study.

Schnoor Featured in NY Times Article

Iowa SRP Center researcher Jerald Schnoor was featured in a New York Times Well article on the number of chemicals contaminating the environment. In an essay he wrote in the journal Environmental Science and Technology, ["Re-Emergence of Emerging Contaminants,"](#) Schnoor called attention to both the startling growth of newly registered chemical compounds and our inadequate understanding of older ones. For more, visit the [NY Times Well Blog](#).

TRAINEE SPOTLIGHT

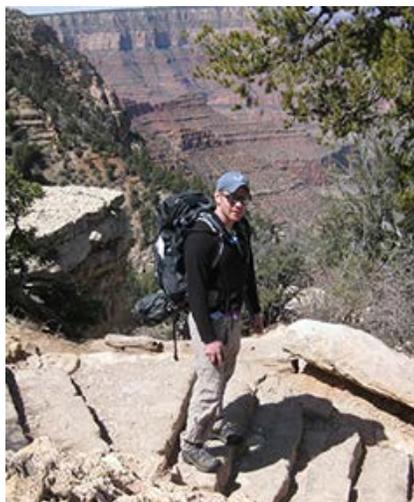
Tod Harper, Oregon State University SRP Center

Tod Harper is a postdoctoral fellow at the Oregon State University (OSU) SRP Center in [David William's laboratory](#). Harper is investigating the early mechanisms involved in cancer initiation after *in utero* exposure to polycyclic aromatic hydrocarbons (PAHS) in a transplacental mouse model.

Harper recently developed a stable isotope dilution UPLC-MS/MS method to detect stereoisomers of dibenzo[def,p]chrysene (DBC)-adducts. Using this method they are able to quantitate adducts in offspring exposed to DBC *in utero*. He is also interested how PAH adducts disrupt local epigenetic marks, contributing to carcinogenesis. Lastly, he is investigating how maternal consumption of the dietary phytochemical, indole-3-carbinol (I3C), alters the epigenome to protect the developing fetus from PAH exposures. Harper's long-term goal is to understand how *in utero* PAH exposure and maternal diet influence the epigenome to promote either carcinogenesis or protection.

Harper was recently awarded "Best New Investigator Poster Presentation" Runner Up" at the 45th Annual Environmental Mutagenesis & Genomics Society Meeting. He also won first place in the "Postdoctoral Presentation" category at this year's Pacific Northwest (PANWAT) regional SOT meeting!

When he is not in the laboratory, Harper can most likely be found camping, trail running, or eating oysters by the dozen and enjoying one of Oregon's fine craft brews! Above, you will see a photo of Harper from a recent backpacking trip in the Grand Canyon.



CURRENT RESEARCH BRIEF

Research Brief #239: [Remediation of Contaminated Groundwater by Persulfate](#) (David Sedlak, UC Berkeley SRP Center) 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 HeacockM@niehs.nih.gov.

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

SRP-SUPPORTED EVENTS

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 Combustion By-Products and their Health Effects Co-Sponsored by the Louisiana State University SRP

Date: June 14-17, 2015

Location: Umeå, Sweden

[Website](#)

Statistical Approaches to Epidemiological Studies of Combined Exposures/Mixtures

July 13-14, 2015

Research Triangle Park, North Carolina

[Website](#)

OTHER CONFERENCES OF INTEREST

16th International Conference of the Pacific Basin Consortium for Environment and Health

August 10-13, 2015

Depok, Indonesia

[Website](#)

HOT PUBLICATION

Reducing Cadmium Exposure During Pregnancy May Improve Birth Outcomes

In a recent *study* in the Journal of Exposure Science and Environmental Epidemiology led by UNC SRP Center researcher Rebecca Fry, scientists found that reducing women's exposure to cadmium during pregnancy likely would cut down on adverse outcomes such as preterm labor, low birth weight, and early pregnancy loss. The study reported that while smoking cigarettes accounts for a significant portion of human exposure to cadmium, diet and proximity to industrial works are the other major sources of the metal for non-smokers. Very few data are available on cadmium levels among pregnant women.

More than 60 percent of the women in the study, which involved women living in Durham County, NC, who were receiving prenatal care either at Duke University Obstetrics Clinic or the Durham County Public Health Prenatal Clinic, had an elevated blood cadmium level. Smoking was associated with a 21 percent increase in risk for higher cadmium levels. Given the health risks of smoking and cadmium exposure, the study urges more monitoring of exposure to toxic metals during pregnancy.

AWARD WINNERS

Brown Trainees Win Awards at SOT Regional Chapter Meeting

At the Annual Fall Meeting of the Northeast Regional Chapter of the Society of Toxicology, several Brown University SRP Center trainees presented their work and won awards. Linnea Anderson won second place in the graduate student poster competition with the poster "Molecular alterations in sperm are sensitive indicators of testicular dysfunction." Pranita Kabadi won the postdoc poster award for her presentation entitled "3-dimensional microtissues in the assessment of pulmonary toxicity induced by engineered nanoparticles."

Williams Recognized with Achievement Award

Oregon State SRP Center Director David Williams was recently awarded the Pacific Northwest Association of Toxicologists (PANWAT) Achievement Award at the 2014 PANWAT meeting. Williams is a nationally and internationally recognized leader in the fields of toxicology and carcinogenesis and over his 27 years on the Oregon State faculty in the College of Agricultural Sciences, Williams has emerged as an outstanding scholar, instructor, and leader. For more on Williams and the award, see the [Oregon State SRP Center news page](#).

Chen Selected to Serve on EPA Science Advisory Board

Dartmouth SRP Center researcher Celia Chen was selected to serve on the EPA Science Advisory Board [Lake Erie Phosphorous Objective Review Panel](#). The workgroup will use ecosystem models of Lake Erie to better understand the phosphorous sources and trophic status of Lake Erie. Chen also serves on the EPA [Ecological Processes and Effects Committee](#), which provides independent advice to the EPA related to sustaining and restoring the health of ecosystems.

CALL FOR ABSTRACTS

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

The 14th International Congress on Combustion By-Products and Their Health Effects (PIC 2015) will be held June 14-17 2015 at the Scandic Plaza Hotel in Umeå, Sweden. The main theme of the PIC 2015 congress is "Origin, fate, and health effects of combustion-related air pollutants in the coming era of bio-based energy sources," which will be covered by 12 scientific sessions, including oral presentations as well as posters. The Local Organization Committee welcomes all SRP grantees to attend the conference and to submit your contributions when the abstract submission opens on **January 7, 2015**. For more information, visit the [PIC 2015 conference web page](#).

FUNDING OPPORTUNITIES

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

UPDATES FROM NIEHS SRP AND 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. Check it out to see the latest SRP news!

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

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) a 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](#)). **Applications are due November 19.**