

**HEADLINES****SRP Annual Meeting a Success**

Thanks to the UC Berkeley SRP Center and everyone involved in the SRP Annual Meeting this year for making it such a successful meeting! In San Jose, CA, grantees and SRP partners came together to discuss new research, technology, communication, and community engagement within the Program. Read about the meeting in the [NIEHS Environmental Factor](#) (Make sure to hover over the top picture for a slide show of a few photos from the meeting).

**Bradley Newsome Receives 2014 Karen Wetterhahn Memorial Award**

Bradley Newsome from the University of Kentucky (UK) SRP Center is the 17th recipient of the annual Karen Wetterhahn Memorial Award. The award, which recognizes outstanding SRP graduates and postdoctoral researchers, was presented at the 2014 SRP Annual Meeting. The SRP acknowledged Newsome for his contributions at the interface of basic sciences, environmental engineering, and biomedicine for the larger purpose of impacting public health. For more about Newsome and the Karen Wetterhahn Award, visit the [SRP website](#).

**IN THE NEWS****SRP in the Environmental Factor**

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

- [Superfund Research Program grantees gather in San Jose for annual meeting](#)
- [NIEHS trainee honored with Wetterhahn Award](#)
- [EMGS honors Barbara Shane and Martyn Smith](#)
- [Endocrine researchers explore dimensions of dose response](#)

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

**Collaborative SRP Research Featured in the Washington Post**

A study from the University of California (UC) Davis and UC San Diego on triclosan, found in antibacterial soap and other household products, was recently featured in [The Washington Post](#). In the study, scientists showed that long-term exposure to triclosan promotes the growth of liver tumors in laboratory mice, raising concerns about its safety for humans. The [article](#) was published in the journal PNAS.

**Guerinot Featured in Dartmouth Now**

Dartmouth SRP grantee Mary Lou Guerinot was featured in a Dartmouth Now story on November 19. The Focus on Faculty interview is part of a series exploring what keeps Dartmouth professors busy inside and outside the classroom. Visit [Dartmouth Now](#) to read about Guerinot's interesting research and to learn more about her.

**TRAINEE SPOTLIGHT****Daniel Gusenleitner, Boston University SRP Center**

Daniel Gusenleitner is a fourth year Ph.D. student at the Boston University SRP Center under the guidance of Stefano Monti. Gusenleitner's work focuses on the prevention and treatment of cancer.

**EMPLOYMENT OPPORTUNITIES****Northeastern University - Associate/Full Professor**

The Northeastern University Department of Health Sciences seeks an associate/full professor and with a strong background in community-based participatory research, environmental justice, and social science-environmental health collaborations. The faculty member will be part of the Social Science Environmental Health Research Institute (SSEHRI), which specializes in collaborative research at the intersection of social science and environmental health science. Applicants must have a doctoral degree in environmental health, environmental science, exposure science, or a related field. Evaluation of candidates will begin **December 1, 2014** and applications will be accepted until the position is filled. See the [job posting](#) for full details.

**Northeastern University - Engineering Faculty Positions**

Continuing a multi-year expansion in size and scope, Northeastern University's College of Engineering seeks faculty candidates for tenured or tenure-track appointments at the associate or full professor level, both within the college and in conjunction with interdisciplinary positions across the campus. Exceptional candidates at the assistant professor level will also be considered. Faculty positions are available in bioengineering, chemical engineering, civil and environmental engineering, electrical and computer engineering, and mechanical and industrial engineering. For more information and a full list of open positions, visit the [Northeastern University College of Engineering website](#).

**Children's Environmental Health Network - Engagement Manager Position**

The Children's Environmental Health Network (CEHN) is seeking an Eco-Healthy Child Care Engagement Manager to foster the growth, development, and reach of the CEHN Eco-Healthy Child Care® Program. This individual must have a strong understanding of children's environmental health, and also the world of child care within the United States including: Child Care Resource and Referral agencies, child care licensing, accreditation, state Quality Improvement Rating Systems, and more. He/she will publicly represent CEHN while participating in meetings with federal and national association partners, presenting at national conferences, and conducting state-wide trainings. For the full position description and for application information, visit the [CEHN job opportunity](#).

For his SRP research, Gusenleitner is using algorithms to model the behavior of cells or tissues after they have been exposed to all sorts of chemicals, to find differences between carcinogens and safe compounds. He is using these models to identify potential carcinogens, but also to learn a lot about underlying molecular mechanisms that can be responsible for cancer development. Using a large-scale rat dataset from the National Toxicology Program, the DrugMatrix Database, Gusenleitner, with others from Monti's research group, built a model to predict whether a chemical is a carcinogen, and validated it with a dataset of information from rats treated with 72 different chemicals. In an [article](#) published in PLOS One, they show that these computational models of short-term exposure to a chemical can predict long-term cancer risk (See the [NIEHS Environmental Factor](#) for more on the study).



He is also working on the cancer treatment side of research, where he is interested in treatment stratification, which means matching up cancer patients with a therapy that maximizes their survival chance. Gusenleitner and his research team recently published an [article](#) in the Journal of Molecular Diagnostics establishing a framework for classifying and stratifying certain types of tumors.

If you were at the SRP Annual Meeting this year in San Jose, you saw Gusenleitner give an excellent talk on his SRP research in the first science session. You may have also seen him the last two years at the SRP Annual Meeting poster sessions. In 2013, he won first place in the SRP Biomedical Student Poster competition. He also won an award for best poster presentation at the 13th Annual International Workshop on Bioinformatics and Systems Biology in 2013.

Gusenleitner hails from Austria and is a huge fan of traveling. He has lived and worked in several different countries, including Sweden, Germany, and the UK. He also has a passion for cooking and baking, and is known for keeping up the spirit in his lab by bringing in his delicious, homemade apple strudel!

## HOT PUBLICATION

### Arsenic in Drinking Water Linked to 50 Percent Drop in Breast Cancer Deaths

A study by researchers from the UC Berkeley SRP Center and the Pontifical Catholic University of Chile has linked arsenic to a 50 percent drop in breast cancer deaths. [The study](#), published this month in the journal EBioMedicine, presents results of breast cancer mortality data from a region in Chile where residents were inadvertently exposed to high levels of arsenic. 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. The effect was more pronounced among women under age 60, with mortality in these women reduced by 70 percent.

## AWARD WINNERS

### SRP Annual Meeting Poster Winners

Four graduate students received awards for their poster presented Wednesday and Thursday evening at the SRP Annual Meeting. The sessions featured more than 90 posters from SRP trainees. Congratulations, trainees!

#### Health Sciences Poster Winners

Alden Adrion, University of North Carolina at Chapel Hill

"Screening Nonionic Surfactants for Enhanced Biodegradation of Polycyclic Aromatic Hydrocarbons in Contaminated Soil"

Angela Gutierrez, University of Kentucky

"Development of polyphenolic nanocomposite materials for rapid removal of organic pollutants from contaminated water sources"

### 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](#).

## CURRENT RESEARCH BRIEF

Research Brief #240: [Linking Phthalate Exposure and Oxidative Stress in Pregnancy](#) (John Meeker, University of Michigan) 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](mailto:HeacockM@niehs.nih.gov).

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

## SRP-SUPPORTED EVENTS

**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](#)

**16th International Conference of the Pacific Basin Consortium for Environment and Health**  
August 10-13, 2015  
Depok, Indonesia

## Environmental Science and Engineering Poster Winners

Peter William Dornbos, Michigan State University

"The Effects of Genetic Variability on the Shape of a Dose-Response Curve: 2,3,7,8 TCDD induced Suppression of CD40L-activated Human Primary B Cells"

Sarah Ann Carratt, University of California at Davis

"Cytotoxicity following naphthalene exposure in microsomal epoxide hydrolase deficient mice"

### **Kozal Wins Best Ph.D. Poster at SETAC**

Duke SRP trainee Jordan Kozal was awarded the Best Poster, Foster (Sonny) Mayer Ph.D. Award at the Society of Environmental Toxicology and Chemistry (SETAC) North America 35th Annual Meeting. The first place poster was titled "Tricyclic PAH-mediated cardiotoxicity in Atlantic killifish (*Fundulus heteroclitus*) inhabiting a highly PAH-contaminated environment."

### **Scammell Awarded JPB Environmental Health Fellowship**

BU SRP Community Engagement Core Leader Madeleine Scammell has been awarded a three-year JPB Environmental Health Fellowship. The Harvard School of Public Health's JPB Environmental Health Fellowship Program is an innovative approach to support junior faculty at U.S. Institutions engaged in research on social and physical determinants of environmental health relevant to disadvantaged communities.

### **Grimm Receives Colgate-Palmolive Fellowship Award**

Iowa SRP trainee Fabian Grimm was selected as the recipient of the 2015 Colgate-Palmolive Fellowship Award in *in vitro* toxicology. The prestigious postdoctoral fellowship award is given annually to advance the development of alternatives to animal testing in toxicological research. Grimm will be presented with the award at the SOT 54th annual meeting in San Diego, California.

### **Creighton Wins Graduate Award at the AIChE**

Brown SRP trainee Megan Creighton was awarded first place prize during the Carbon Nanomaterials Graduate Student Award Session at the annual meeting of the American Institute of Chemical Engineers. The Nanoscale Science and Engineering forum hosted an award session to honor graduate students whose research achievements, in the broad area of carbon nanomaterials, demonstrate a high level of excellence. Finalists were selected based on their abstract submissions and their CVs to present their work in this award session. At the end of the session, a panel of judges determined session winners.

### **Wells Carpenter Wins Best Poster at Nanomanufacturing Conference**

Duke SRP trainee Alexis Wells Carpenter represented the Duke SRP Center and the Center for the Environmental Implications of Nanotechnology (CEINT) at the 2014 Nanomanufacturing Conference: A Conference to Move from Innovation to Commercialization. Wells Carpenter won the best poster award for her poster titled "Nanocellulose-Zero Valent Iron-Based Composites as an Improved Remediation Strategy". The conference brought together founders, CEOs, senior executives, business leaders, economic developers, and other leaders spanning academia, industry, government and non-profits to work together and inspire growth in the nanotechnology manufacturing sector in North Carolina and the U.S.

### **Butler Wins Award at BU Research Day**

BU SRP trainee Lindsey Butler tied for first place in the MS/MPH category at the 2014 Boston University School of Public Health Research Day held in November. Her poster, Childhood and Adolescent Fish Consumption and Adult Neuropsychological Performance: An Analysis from the Cape Cod Health Study, is part of past BU SRP research. She was advised by Patricia Janulewicz, an assistant professor of environmental health and former BU Superfund trainee.

## **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

## 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. 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](#).

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

### Deadline for the 2015 EJ Small Grants Request for Applications Extended

The deadline for submitting applications for EPA's 2015 Environmental Justice Small Grants (EJSG) Program has been extended to **January 9, 2015**. The EJSG Program provides funding for eligible applicants for projects that address local environmental and/or public health issues within an affected community. The EJSG Program is designed to help eligible non-profit organizations and Tribal communities understand and address exposure to multiple environmental harms and risks at the local level. EPA recognizes the critical role of helping communities with localized strategies to avoid, lessen, or delay the risks and impacts associated with our changing climate. As a result, this year's EJSG program will have a special emphasis on proposals supporting community-based preparedness and resilience efforts (community climate resiliency).

For more information regarding the Environmental Justice Small Grants Program and to view the RFA, please visit the [EPA Environmental Justice website](#). If you are working with community partners that focus on environmental justice issues, this is a great opportunity for them to receive funding to get projects off the ground.

### KC Donnelly Administrative Supplements Due January 31

The SRP KC Donnelly Administrative Supplement applications are due **January 31, 2015**. The deadline has moved up from previous submission dates in order to have funds available for the externships earlier in the year.

Please see the KC Donnelly [webpage](#) and [guidelines](#) for more information. The administrative supplements are made available by the SRP to promote transdisciplinary and translational research among early SRP investigators (e.g., graduate students/post-doctoral researchers) which includes the recruitment of talented researchers and improving the quality of the educational and training environment. The purpose of these supplements is to provide current SRP-funded graduate students/post-doctoral researchers with translational/transdisciplinary opportunities and experiences that improves their skill set and broadens their scientific network within other SRP-funded centers, government laboratories (EPA, ATSDR, NIEHS), or other agencies (state, local, Tribal).

### Breast Cancer and Environment Funding Opportunity

[Environmental Influences during Windows of Susceptibility in Breast Cancer Risk \(U01\)](#) - The overarching goal of the NIEHS-NCI Breast Cancer and the Environment Research Program (BCERP) is to support integrated scientific research to enhance our knowledge of environmental and genetic factors underlying breast cancer risk. This funding opportunity will support transdisciplinary research projects to investigate the influence of environmental exposures during specific time windows of susceptibility on breast cancer risk. Applications are due **January 28, 2015**, by 5:00 PM local time of applicant organization. Visit the [funding opportunity](#) for more information.

### ONES Award Funding Opportunity

[Outstanding New Environmental Scientist \(ONES\) Award \(R01\)](#) - The Outstanding New Environmental Scientist (ONES) Award is intended to identify the most talented Early Stage Investigators (ESIs) who intend to make a long-term commitment to research in the Environmental Health Sciences and assist them in launching an innovative research program focused on the understanding of environmental exposure effects on people's health. Applications are due **February 27, 2015**, by 5:00 PM local time of applicant organization. Visit the [funding opportunity](#) for more information.

## WEBINARS

### Risk e-Learning Web Seminars: Porewater Concentrations and Bioavailability

The Risk e-Learning Webinar series ends with the final session on **December 15, 2014, 12:30-2:30 pm ET**. Session 4, Case Studies: Passive Sampling Devices for Organic Contaminants, will provide information on how EPA Remedial Project Managers have used bioavailability and porewater measurements at two sediment sites contaminated with hydrophobic organic chemicals.

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 listen to the archives of the previous webinar sessions, visit the [SRP Risk e-Learning website](#).

## INTERAGENCY NEWS

### **New Tool from the CDC Public Health Tracking Network**

The CDC National Environmental Public Health Tracking Network just launched a new and improved Info by Location tool. This infographic-style tool allows you to enter your zip code or county name and view environmental health data and information specific to your county, such as data on demographics, asthma, air quality, smoking, and health insurance coverage. Visit the [Tracking Network](#) today to explore this new tool!

### **Request for Information (RFI): Making Data Usable--A Framework for Community-Based Data and Metadata Standards Efforts for NIH-relevant Research**

The SRP would like to invite you to contribute to a recently released Request for Information (RFI) for "Making Data Usable--A Framework for Community-Based Data and Metadata Standards Efforts for NIH-relevant Research." The purpose of this RFI is to solicit comments and ideas related to how community standards activities are initiated, developed, disseminated, and sustained and any role that NIH might play to help catalyze such efforts.

Responses are requested by **TODAY, December 5, 2014**. For more information on the RFI and to respond, visit the [NIH Notice NOT-ES-15-002](#).