OSU SRP Spring 2015 eNewsletter

also serve as our Executive Research Coordinator. With full support of our Center Members, our Executive Review Committees, and the NIEHS, Robyn L. Tanguay was appointed as Center Director. Dr. Tanguay is a Distinguished Professor of Environmental and Molecular Toxicology

We also announce a leadership change for our Research Translation Core (RTC). Dr. Dan Sudakin, our founding RTC Director, left OSU in 2014 to pursue a private medical practice. With enthusiastic support from Center Members and approval from NIEHS, Dr.

Justin Teeguarden (PNNL) was appointed to lead the RTC. Dr. Teeguarden has extensive leadership experience and brings his energy, creativity and expertise in risk assessment and modeling. His talents have already substantially advanced and promoted the research of the OSU/PNNL SRP Center.

An OSU press release went out on May 8th and received lots of media attention and interest. This is a collaborative research publication from Project 1 and the Biostatistics

Media Highlights

and Modeling Core. View Press Release

SRP Scientists from OSU and PNNL Develop

Improved Way to Assess Cancer Risk

Researchers from Project 4 Receiving Media Attention from Ohio Fracking PAH study Fracking Activities Pollute Nearby Air With

Carcinogenic Hydrocarbons (CE&N)

OSU study finds (OSU Press Release)

Fracking may affect air quality and human health,

Staci Simonich on Public Radio About the Chemicals Found in Snow During the East Coast Storm Snow is Delicious, But is it Dangerous to Eat?

in Magazine See "Full-Spectrum Eating"

New Video on PAHs

a new video designed for the general public. In this video, we addressed five questions about

Susan Tilton at OSU (above) and Katrina Waters at PNNL lead the **Biostatistics and Modeling** Dave William's Research on Effects of Phytonutrients in Utero Highlighted

An important role of our Center is to educate diverse audiences on the importance of

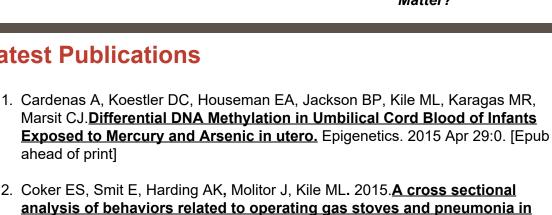
1) What are PAHs? 2) Where do they come from?

(North Country Public Radio)

3) How am I exposed to PAHs? 4) What are the health effects of PAHs? 5) What can I do to reduce my exposure to PAHs? **Polycyclic Aromatic Hydrocarbons:** The video is available on YouTube. What Are They and Why Do They

PAHs.

- Latest Publications
- ahead of print]



Williams DE. Analysis of dibenzo [def,p]chrysene-deoxyadenosine adducts in wild-type and cytochrome P450 1b1 knockout mice using stable-isotope

of the total environment, 514C:170-177.

dilution UHPLC-MS/MS. Mutation Research. Volume 782, April 2015, Pages 51-56 4. Motorykin O, Santiago-Delgado L, Rohlman D, Schrlau JE, Harper B, Harris S, Harding AK, Kile ML, Massey Simonich SL. 2015. Metabolism and excretion rates of parent and hydroxy-PAHs in urine collected after consumption of

traditionally smoked salmon for Native American volunteers. The Science

5. Paulik LB, Donald CE, Smith BW, Tidwell LG, Hobbie KA, Kincl L, Haynes EN, Anderson KA. Impact of natural gas extraction on PAH levels in ambient air.

Environ Sci Technol. 2015 Mar 26. PMID: 25810398 [Epub ahead of print]

<u>U.S. children under the age of 5</u>. BMC Public Health. 15(138 Suppl)

3. Harper TA, Morr J, Lauer FT, McQuistan TJ, Hummel JM, Burchie SW,

6. Tidwell LG, Allan SA, O'Connell SG, Hobbie KA, Smith BW, Anderson KA. Polycyclic Aromatic Hydrocarbon (PAH) and Oxygenated PAH (OPAH) Air-Water Exchange during the Deepwater Horizon Oil Spill. Environ. Sci. Technol., 2015, 49 (1), pp 141-149.DOI: 10.1021/es503827y 7. Tilton SC, Siddens LK, Krueger SK, Larkin AJ, Lohr CV, Williams DE, Baird

WM, Waters KM. Mechanism-based classification of PAH mixtures to predict carcinogenic potential. Toxicol. Sci. first published online April 22,

Cleo Davie-Martin, Project 5 Hi! My name is Cleo Davie-Martin, and I am a recent arrival from Dunedin, New Zealand. I am a new Post-doctoral Scholar in the Department of Environmental and Molecular Toxicology at Oregon State University working with Dr. Staci Simonich

> I obtained my B.Sc.(Hons) in chemistry and more recently, my Ph.D. in environmental and analytical chemistry from the University of Otago under the supervision of Dr. Kimberly Hageman and Dr. Yu-

On my weekends, you are likely to find me

Ping Chin. My research investigated the local- and global-scale atmospheric distribution of organic contaminants, including pesticides and brominated

under Project 5 of the SRP.

2015 doi:10.1093/toxsci/kfv080

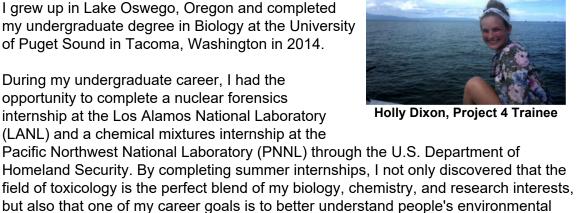
New Trainee Introductions

backpacking through the mountains, camping under the stars, and/or exploring the coast (and when this beautiful weather ends...

Cleo Davie-Martin. **Project 5 Postdoc Trainee**

perhaps indoors on the climbing wall or playing badminton and squash). Holly Dixon, Project 4

flame retardants.



exposure to toxicants.

Trainee Updates

• Leah Chibwe (Project 5

Greta Frey (CEC Trainee) were awarded an Oregon

Scholarship for the 2015-16 academic year. These scholarships are awarded based upon the academic

• Ivan Titaley (Project 5

using a metabolomics approach".

Trainee) and

Lottery Graduate

merit and scholarly achievement of the

nominees

Read more

>>Read More

Pollution

>>Read More

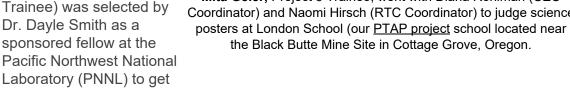
My name is Holly Dixon, and I am a new PhD

student in the Dept. of Environmental and Molecular Toxicology (EMT) at Oregon State University (OSU).



Holly Dixon, Project 4 Trainee

Students will work with our SRP investigators and trainees to learn how to solve reallife mysteries and create healthier environments. We will also focus on the wide range of career options in this important and growing field of science, and organize campus tours that highlight the cutting-edge science facilities at Oregon State University. JOHNS HOPKINS



Trainee Externship Award through the SRP Training Core. This activity provides important synergy between Project 5 and Core C - Biostatistics and Modeling.

Marc Elie (Project 3 Postdoc Trainee) was awarded Best Presentation in the

"Assessing the Toxicity of Environmental Contaminants" symposium at the 249th ACS meeting in Denver. The title of his presentation was Assessing the uptake and effects of polycyclic aromatic hydrocarbons and their oxygenated derivatives on zebrafish

 Holly Dixon (Project 4 Trainee) has been recognized as an Oregon State University ARCS Scholar. This award is for an incoming or new PhD student in the College of Agricultural Sciences. As an ARCS Scholar she will receive a generous stipend for 3

• Leah Chibwe (Project 5 Trainee) has been selected as a winner of one of the 2015

sponsored fellow at the Pacific Northwest National Laboratory (PNNL) to get hands-on training in modeling of polycyclic aromatic hydrocarbons. To financially support Ivan on this unique training opportunity, he has been awarded an SRP

Bioremediation of PAH Contaminated Soil Results in Increased Toxicity and No Change in Excess Lifetime Cancer Risk") this fall in Boston at the special C. Ellen Gonter Environmental Chemistry Awards Symposium. Leah also received one of the 2015 Graduate Student Awards in Environmental Chemistry from the Division of Environmental Chemistry of the American Chemical Society. Blair Paulik Receives SRP Trainee Award for SETAC Europe Meeting

beginning fall 2014. She will be one of only a few students from

Graduate Student Paper Awards. Leah will present her paper ("Aerobic

years to support her graduate studies. Learn more about Holly.

Blair Paulik and Jamie Minick, both SRP Trainees working on their PhDs in Dr. Kim Anderson's lab (Project 4), traveled to McNary High School in the Salem, Oregon area on April 10th to teach students about environmental pollution. Blair and Jamie's interactive presentation highlighted where environmental pollution comes from, why environmental pollution is of concern, how humans are

environment.

>> Read More

Superfund Research Program: Collaborating to Meet Community Technical **Assistance Needs at Superfund Sites**

Dr. Dave Stone (RTC Co-Leader), who is a member of ATSAC, reiterated the value of both presentations, as well as the overall contribution of the Superfund Research

Statistical Approaches for Assessing Health Effects of Environmental Chemical

16th International Conference of the Pacific Basin Consortium

Trainees Teach High School Students About Environmental

North America to formally represent NASAC and SETAC North America on this global

the web site. >>Learn more

Third Thursdays at Noon

Oregon State Air Toxics Science Advisory Meeting On May 20, 2015, Dr. Staci Simonich and Dr. Kim Anderson presented to the Oregon State Air Toxics Science Advisory Committee (ATSAC). This committee is part of State of Oregon Department of Environmental Quality (DEQ) Air Quality Division Environmental/Technical Services.

Jamie Minick presenting on

environmental pollutants.

Events

Sponsored by: EPA Office of Superfund Remediation and Technology Innovation Diana Rohlman (CEC Coordinator) and Naomi Hirsch (RTC Coordinator) shared an overview of the Black Butte Mine Superfund Site educational project in collaboration with the EPA Partners in Technical Assistance Program (PTAP) on May 6, 2015. View recording and resources. **OSU SRP Researchers Present at the**

NARPM Presents...EPA and the NIEHS

Depok, Indonesia | August 10 - 13, 2015 <u>American Chemical Society National Meeting & Exposition</u>

2015 Annual Meeting of the Superfund Research Program San Juan, Puerto Rico | November 18 - 20, 2015 The International Chemical Congress of Pacific Basin Societies

<u>American Public Health Association's Annual Meeting & Exposition</u>

International Society for Exposure Science (ISES)

Henderson, Nevada | October 18 - 22, 2015

Chicago, III | Oct. 31 - Nov. 4, 2015

National Institutes of Health.

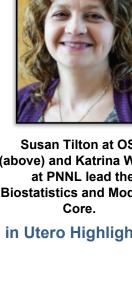
The OSU Superfund Research Center was established in 2009 and brings together a multidisciplinary team with years of experience in polycyclic aromatic hydrocarbons (PAHs) and environmental health issues.

STAY CONNECTED

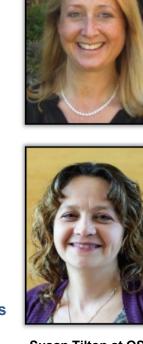
The Superfund Research Program is federally funded and administered by the National Institute of Environmental Health Sciences (NIEHS grant #P42 ES016465), an institute of the







Center Transitions Our Center announces a key leadership change. Dr. David E Williams, our founding Center Director has stepped down effective December 2014 to focus his efforts on his research program. Dr. Williams will importantly and has extensive leadership experience. His brings a dynamic style with a strong commitment to the success of the OSU/PNNL SRP Center and it members.

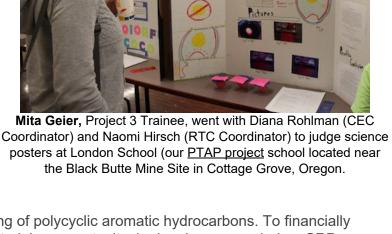




studying polycyclic aromatic hydrocarbons (PAHs) and the connection to environmental public health. For that reason the Research Translation Core produced

Matter?

NTER for TALENTED YOUTH





exposed to pollutants, and how scientists at Oregon

Throughout the day, Blair and Jamie taught 129 high school students from six different classes including chemistry, biology, and environmental science. The students showed genuine interest in the subject

matter, asking questions about specific environmental pollutants and about science and college in general.

State University are studying pollutants in the





Mixtures in Epidemiology Studies NIEHS Main Campus | July 13 & 14, 2015

for Environment and Health

Boston, MA | August 16 - 20, 2015 27th Conference of the International Society for Environmental Epidemiology Sao Paulo, Brazil | August 30 - Sept. 3, 2015

Honolulu, Hawaii | December 15 - 20, 2015

Oregon State University

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