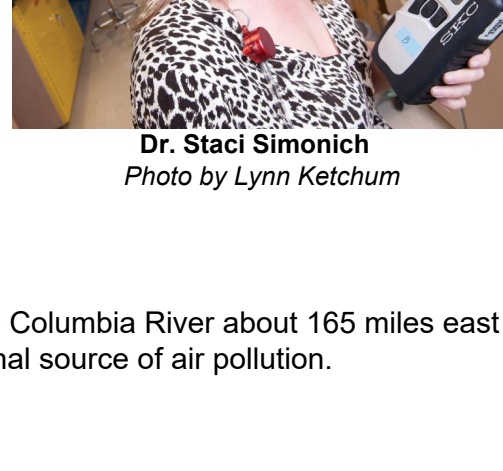


SRP Research Related to Air Quality at Oregon Power Plant Gets Media Attention

A new OSU SRP publication shared about the unexpected reduction of harmful air emissions after a reduction of mercury emissions at an Oregon coal-fired power plant. The study was led by the lab of Staci Simonich (Project Leader of [Project 5](#)).

Portland General Electric (PGE) added emission control systems at its generating plant in Boardman, Oregon, in 2011 to capture and remove mercury from the exhaust. Before-and-after measurements found that concentrations of two major groups of air pollutants, that included polycyclic aromatic hydrocarbons (PAHs), went down by 40 and 72 percent, respectively, after the plant was upgraded.



Dr. Staci Simonich
Photo by Lynn Ketchum

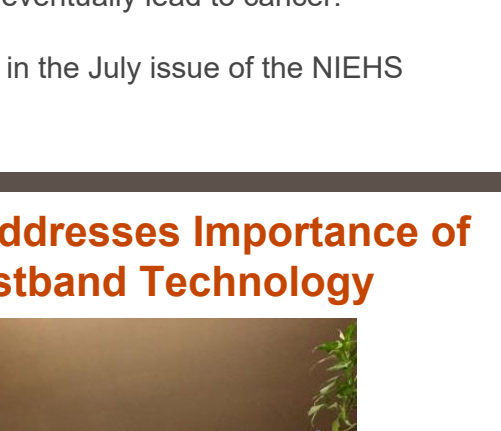
The study was published in the journal Environmental Science & Technology in July, and included an [OSU Press Release](#).

The Boardman plant, on the Oregon side of the Columbia River about 165 miles east of Portland, has historically been a major regional source of air pollution.

[>> Read more](#)

OSU Contribution to the Halifax Project Highlighted

Dr. William Bisson's research contribution on the Halifax Project task force was promoted with an [OSU Press Release](#), a [radio interview](#) on OPB, and highlighted by AAAS Science News in [EurekAlert](#).

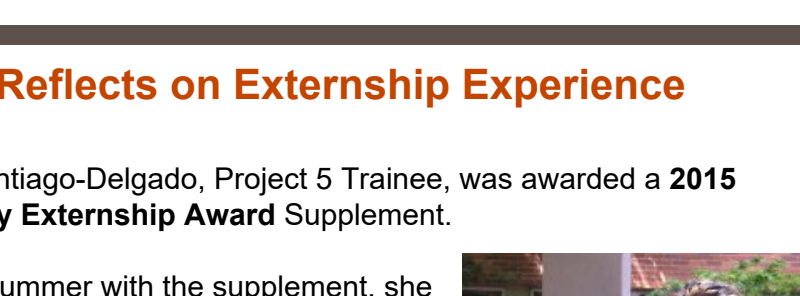


Dr. William Bisson (Project 3 Research Associate)

According to the task force of 170 cancer scientists from 28 countries, common environmental chemicals assumed to be safe at low doses may act separately or together to disrupt human tissues in ways that eventually lead to cancer.

[Read more](#) about the Halifax Project research in the July issue of the NIEHS Environmental Factor.

Oregon Senator Jeff Merkley Addresses Importance of Measuring Chemicals with Wristband Technology



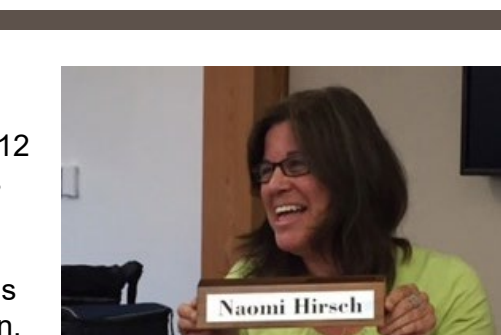
Dr. Kim Anderson ([Project 4](#) Leader) stands to the left of Senator Jeff Merkley during the press conference.

[Listen to the story on KLCC.](#)

Trainee Reflects on Externship Experience

Lisandra Santiago-Delgado, Project 5 Trainee, was awarded a **2015 KC Donnelly Externship Award** Supplement.

Earlier this summer with the supplement, she conducted research at the USEPA Robert S. Kerr Research Laboratory in Ada, Oklahoma under the guidance of Dr. Eva L. Davis.



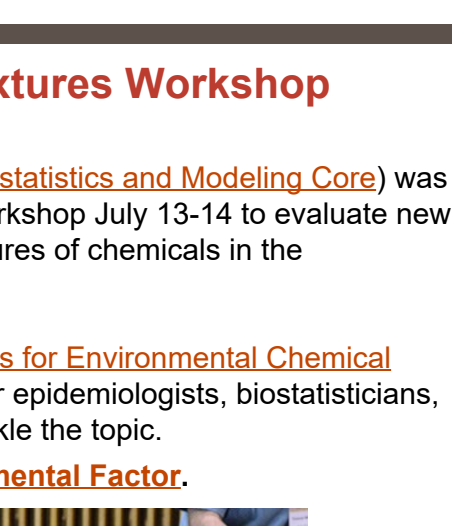
Lisandra Santiago-Delgado

The main objective of her externship was to collaborate and learn from Dr. Davis, an expert in the field of thermal remediation of contaminated soils and groundwater. I focused on utilizing steam injections on a laboratory scale to thermally remediate creosote-contaminated Superfund soils.

Lisandra wrote a [blog post](#) to share her experience.

Naomi Hirsch Leaves SRP

After 14 years at Oregon State University and 12 years as an NIEHS grantee, Naomi Hirsch has decided to change careers and serve the community as the volunteer coordinator for Benton Hospice Service, a nonprofit in Corvallis supporting families and individuals in the region.



Naomi's gift from the SRP - a fancy new name plate and business card holder or her new job.

Naomi's last day in the office is Aug. 21.

Best Wishes to Naomi!

Katrina Waters Participates in Mixtures Workshop

Dr. Katrina Waters (Leader of the Core C: [The Biostatistics and Modeling Core](#)) was invited by NIEHS to attend and participate at a workshop July 13-14 to evaluate new statistical methods for studying exposures to mixtures of chemicals in the environment.

[Statistical Approaches for Assessing Health Effects for Environmental Chemical Mixtures in Epidemiology Studies](#) brought together epidemiologists, biostatisticians, toxicologists, and exposure scientists eager to tackle the topic.

[Read more in the August 2015 NIEHS Environmental Factor.](#)



Brent Coull, Ph.D., Harvard foreground, discusses the first simulated data set with panelists, from left, Katrina Waters, Ph.D., Pacific Northwest National Laboratory; Sung Kyun Park, Sc.D., University of Michigan-Ann Arbor; Gennings, not shown; Vieira, Shuo Chen, Ph.D., University of California, Irvine; and Ghassan Hamra, Ph.D., Drexel University. (Photo courtesy of Steve McCaw)

Recent Awards and Publications

Awards

The OSU Superfund Research Center has been chosen to receive the **James and Mildred Oldfield/E.R. Jackman Team Award**.

The purpose of the award is to recognize superior and distinguished interdisciplinary team achievements through teaching, research, international, or extended education activities of faculty and staff. Presentation of this award will serve to highlight the importance of interdisciplinary team effort in achieving the goals of the College of Agricultural Sciences, Oregon State University and of Oregon agriculture, and to show in a tangible way that the College stands strongly behind such efforts.

Dr. David Williams Recognized for Leadership and Administration

David Williams ([Project 1](#) Leader) has been presented the Award of Excellence in recognition of his program "Beneficial and Adverse Effects of Natural Chemicals on Human Health and Food Safety" from [The Western Assoc. of Ag. Experiment Station Directors](#). Williams will also receive the [Arnold Leadership award](#), which recognizes an administrator for outstanding contributions to the research mission by of the College of Agricultural Science at Oregon State University. The award will be presented at University Days in September.

The Tanguay Group Received Funding for Two New Projects from EPA and NSF

Robert Tanguay (Center Director and [Project 3](#) Leader) has been awarded a new, three-year award from NSF entitled: "Integrating nanoparticle design and in vivo testing to proactively reduce environmental impacts".

Tanguay also received a three-year award from the EPA entitled: "Defining Flame Retardants Adverse Outcome Pathway". This project will test the hypothesis that the toxicity of flame retardant chemicals (FRCs) is highly dependent on their chemical structure and conduct the first comprehensive in vivo, structure-activity based toxicity studies of FRCs.

Dr. Staci Simonich Recognized for Outstanding Mentorship

Dr. Staci Simonich ([Project 5](#) Leader) has been selected to be the recipient of the [2015 President's Commission on the Status of Women University Mentoring and Professional Development Award](#). She will receive recognition and an award in September at University Day. Staci also received an "Excellence in Graduate Mentoring Award" from the OSU Graduate School this past June.

Trainee Anna Chlebowski Awarded NRSA Fellowship

Anna Chlebowski ([Project 5](#) Trainee) has been awarded three years of competitive NIH-funded NRSA Fellowship support for her doctoral research titled: "Toxicology and environmental occurrence of novel nitrated polycyclic aromatic hydrocarbons."

Congratulations to Stacey Harper (Training Core Co-Leader).

Stacey Harper ([Training Core](#) Co-Leader) has been promoted to Associate Professor and awarded tenure.

Trainee Mitra Geier Receives Externship Support from Training Core

Mitra Geier ([Project 3](#) Trainee) was able to attend and make connections at the International Neurotoxicology Association and Neurobehavioral Teratology Society joint meeting with her Externship Award from the Training Core. [See the blog post for more details.](#)

Publications

[Aerobic Bioremediation of PAH Contaminated Soil Results in Increased Genotoxicity and Developmental Toxicity.](#)

Chibwe L., Geier MC, Nakamura J, Tanguay RL, Aitken MD, Simonich SL, Massey. *Environmental Science & Technology*. 2015

[Cytochrome P450 1b1 in polycyclic aromatic hydrocarbon \(PAH\)-induced skin carcinogenesis: Tumorigenicity of individual PAHs and coal-tar extract, DNA adduction and expression of select genes in the Cyp1b1 knockout mouse.](#)

Siddens LK, Bunde KL, Harper TA, McQuistan TJ, Lohr CV, Bramer LM, et al. *Toxicol Appl Pharmacol*. 2015

[Ligand-specific transcriptional mechanisms underlie aryl hydrocarbon receptor-mediated developmental toxicity of oxygenated PAHs.](#)

Goodale, BC, La Du, J, Tilton, SC, Sullivan, CM, Bisson, WH, Waters, KM, Tanguay, RL. *Toxicological Sciences*. 2015

[Metabolism and excretion rates of parent and hydroxy-PAHs in urine collected after consumption of traditionally smoked salmon for Native American volunteers.](#)

Motorykin, JJ, Q. Santiago-Delgado L, Rohman D, Schrlau JE, Harper B, Harris S, et al. *Sci Total Environ*. 2015

[Relative Influence of Trans-Pacific and Regional Atmospheric Transport of PAHs in the Pacific Northwest, U.S.](#)

Lafontaine S, Schrlau J, Butler J, Jia Y, Harper B, Harris S, et al. *Environmental Science & Technology*. 2015

[High-throughput characterization of chemical-associated embryonic behavioral changes predicts teratogenic outcomes.](#)

Reif, DM, Truong, L, Mandrell, D, Marvel, S, Zhang, G, Tanguay, RL. *Archives of Toxicology*. July 2015

Family Science Event in Partnership with the Johns Hopkins Center for Talented Youth (CTY) Postponed Until Spring 2016

The educational day of toxicology and environmental health activities for 7-10th graders in collaboration with the Talented Youth Program at Johns Hopkins University was scheduled for Oct. 3, 2015, and will now be postponed until Spring 2016.

Our proposed event entitled, *Unraveling the Mysteries of Living with Chemicals*, is part of the [Science and Technology Series](#) at the CTY.

Events

Webinars

Progress in Research: TCE, PCBs, and Phthalates - Exposure, Mechanisms of Disease, and Clean-Up Remedies

Sponsored by: NIEHS Superfund Research Program

August 24, 10am - 12pm PT
<https://clu-in.org/conf/tio/srppir2/>

Halifax Project: Low Dose Theory Symposium

August 25, 6:30am - 12:30pm PT
http://tools.niehs.nih.gov/conference/halifax_2015/

Interindividual Variability: New Ways to Study and Implications for Decision-Making

September 30 - October 1, 2015

Webcast and Twitter discussion #NASvariability

Sponsored by: Emerging Science for Environmental Health Decisions
<http://nas-sites.org/emergingscience/meetings/interindividual-variability/>

Environmental Health Sciences Trainee
Colloquium
Third Thursdays at Noon

OSU Superfund 2015 Environmental Health Science Trainee Colloquium

Our monthly webinar series shares the research of the OSU SRP Trainees to the OSU and PNLL communities. Some presentations are recorded and shared on the web site.

[>>Learn more](#)

Upcoming National and International Meetings

[27th Conference of the International Society for Environmental Epidemiology](#)
Sao Paulo, Brazil | August 30 - September 3, 2015

[2015 PANWAT Meeting](#)
Bothell and Woodinville, WA | September 17-18, 2015

[SETAC North America 36th Annual Meeting](#)
Salt Lake City, UT | November 1-5, 2015

[International Society for Exposure Science \(ISES\)](#)
Henderson, Nevada | October 18 - 22, 2015

[American Public Health Association's Annual Meeting & Exposition](#)
Chicago, Ill | October 31 - November 4, 2015

[2015 Annual Meeting of the Superfund Research Program](#)
San Juan, Puerto Rico | November 18 - 20, 2015

[The International Chemical Congress of Pacific Basin Societies](#)
Honolulu, Hawaii | December 15 - 20, 2015

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.

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 National Institutes of Health.

STAY CONNECTED

