

Newsletter

ISSUE 16: March 2009



July Layshock: [Living Downwind](#) (Terra)

Pacific Ocean breezes carry more than the smell of the sea. They transport pollutants from Asia to the United States. By collecting and testing the toxicity of particles in Northwest air samples, OSU Ph.D. student Julie Layshock is shedding light on the relative health threat posed by long-distance air pollution.

Dr. Dan Sudakin: [New method pinpoints meth hot spots](#) (Oregon's Agricultural Progress)

Public health officials have a new tool for fighting methamphetamines. "There are a lot of people analyzing the issue of methamphetamine, but they do it from different angles," said OSU toxicologist and physician Daniel Sudakin. "Some focus on health problems, others focus on hazardous chemical releases from meth labs." Sudakin used statistics from four sources to identify counties with the most meth-linked incidents per capita, a new approach toward studying a significant public health concern.

Dr. Staci Simonich: [OSU chemist tracks pollutants across the globe](#) (Oregon's Agricultural Progress)

Staci Simonich pulled a plastic bag out of a freezer in her lab at Oregon State University. Inside was what looked like a filthy paper towel: an air filter, coated with dark gray particles that she and millions of other people inhaled during the Summer Olympics in Beijing. "It was the most polluted place I had ever been," Simonich said, "and the filters were the dirtiest I had seen in 20 years of air sampling." From late July through September, Simonich and colleagues at Peking University collected particles out of the air atop a seven-story building in China's

Jeff Jenkins: [Study: Combining pesticides makes them more deadly](#) (Business Week)

Jeffrey Jenkins, professor of environmental and molecular toxicology at Oregon State University, was not part of the study. He said the study was well done, but it would take more research to push the U.S. Environmental Protection Agency to change its pesticide testing standards as they relate to fish, which are defined by law.



Siva Kolluri: [Turning a cancer bodyguard into a cancer killer](#) (Oregon's Agricultural Progress)

If you're a cancer cell, you want a protein called Bcl-2 on your side because it decides if you live or die. It's usually a trusted bodyguard, protecting cancer cells and allowing them to grow and form tumors. But sometimes it turns into a cancer cell's assassin. "Now we can force this protein to backstab the cancer cell where it resides," said Siva Kolluri, a cancer biology researcher in the environmental and

capital. The goal: to measure the results of the Chinese government's efforts to clean up the city's smog-shrouded sky. molecular toxicology department at OSU.

OSU Food Drive Results 2009

Department	Donations	Paycheck Contributions	Food in Pounds	Donations + paycheck contributions *5= pounds of food	Total = converted pounds + food pounds
Environmental and Molecular Toxicology	\$258.11	\$720.00	124	4890.55	5014.55

- Thank you to everyone who donated food, money or baked goods for sale in support of the OSU Food Drive that lasted throughout February of 2009. Overall, EMT finished in sixth place in the group of 51-100 employees.

TEAM-TOX Council Members



* Wendy Hillwalker: Post-Doc Rep * Norman Forsberg: Vice President * Jill Franzosa: Grad Rep
* Kate Cleveland: President * Eddie O'Donnell: Secretary/Treasurer*

Recent Graduates From EMT Labs



David Castro
Williams Lab
Ph.D. in Toxicology

Dave recently accepted a post-doc position at the [Burnham Institute for Medical Research](#).

Thank You and Goodbye



Kelly Bahns
NPIC



William Bisson
Kolluri Lab



Danielle King
Kerkvliet Lab

New Faces in the Department



Syam Andra
Post-doc Research Associate
Field Lab



Carmen Boone
Faculty Research Assistant
NPIC



Tamara Fraley
Faculty Research Assistant
Harper Lab

Stacey Harper
Associate Professor

Stacey Harper has been appointed to the EMT Faculty as an Associate Professor. Stacey is currently working on setting up her lab space in Weniger Hall, 414N. Welcome Stacey.





Jessica Perry

Faculty Research Assistant
NPIC



Vidya Schalk

Faculty Research Assistant
Buermeyer Lab

Babies



Congratulations to Dave Stone

Kari gave birth to a healthy baby girl on Sunday, January 11th

Sadie Stone

6 lbs 13 ounces



Congratulations to Eric Johnson

Noah Gabriel Johnson was born on January 19, 2009, 7.1 oz., 20 inches.

Lab News:

Harper Lab

- Stacey Harper was selected to become the 6th Signature Faculty Fellow of the Oregon Nanoscience and Microtechnologies Institute.

- Harper awarded \$105,000 from the Safer Nanomaterials and Nanomanufacturing Initiative to further develop the Nanomaterial-Biological Interactions (NBI) knowledgebase. NIOSH's Nanoparticle Information Library will soon be incorporated into the knowledgebase system. New features of the NBI will be rolled out in early spring.
- Stacey Harper is serving on the steering committee for the Nanotechnology Health and Safety Forum, a conference that will be held in conjunction with the first meeting of the American National Standards Institute (ANSI) / International Organization for Standardization (ISO) TC 229 hosted in the United States. The meeting will be in Seattle on June 8-9, 2009.
- Stacey Harper presented a seminar entitled "Nanotechnology: Applications and Implications" to the graduate students and faculty of the Wood Science and Engineering Department at OSU on January 28, 2009.
- Stacey Harper was an invited speaker at the GreenerNano 2009 conference at Invitrogen, Eugene on March 2, 2009. Her talk was entitled "Updating the NBI knowledgebase to Provide Design Rules for Safer Nanotechnology".

NPIC

NPIC and EHSC launch PestiByte PODcasts!

PestiBytes are 1-2 minute interviews, often based on common pesticide questions. Four episodes are currently available from the [NPIC website](#), the [EHSC website](#) and iTunes. The series was created by the National Pesticide Information Center, and produced by the Environmental Health Sciences Center's Outreach & Education team.

International IPM Symposium

NPIC will present a booth at the symposium this March in Portland. Melody Johnson, Kaci Agle and Dave Stone are also presenting a poster entitled, "The National Pesticide Information Center: Integrating Risk Communication with IPM Resources for the General Public." Utilizing an established national audience, multi-lingual capability and qualified staff, NPIC is well positioned to link the public with IPM information and to provide complimentary risk communication.

Williams Lab

Henderson MC, Siddens LK, Morr  JT, Krueger SK, Williams DE. Metabolism of the anti-tuberculosis drug ethionamide by mouse and human FMO1, FMO2 and FMO3 and mouse and human lung microsomes. *Toxicol Appl Pharmacol.* 2008 233:420-427.

David J. Castro, Christiane V. L hr, Kay A. Fischer, Katrina M. Waters, Bobbie-Jo M. Webb-Robertson, Roderick H. Dashwood, George S. Bailey, and David E. Williams Identifying efficacious approaches to chemoprevention with chlorophyllin, purified chlorophylls and freeze-dried spinach in a mouse model of transplacental carcinogenesis. *Carcinogenesis Advance Access published on December 10, 2008* [Carcinogenesis 2009 30: 315-320](#); [doi:10.1093/carcin/bgn280](#)

David J. Castro was selected to received Graduate Student Travel Support for the 2009 Annual Meeting of the Society of Toxicology (SOT) March 15-19, in Baltimore, Maryland.

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