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## Newsletter

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ISSUE 17: June 2009



**Dr. Roderick Dashwood [Eat fresh plants to live better and longer](#) (Statesman Journal)**

Local residents have access to state-of-the-art information relating to healthy aging from Oregon State University's Linus Pauling Institute

**Dr. George S. Bailey [Probing Carcinogenicity Limits: A herculean study on 40,000 trout provides the first experimental data for how conservative EPA might be in estimating cancer risk](#) (Chemical and Engineering News)** When the Environmental Protection Agency determines exposure limits for genotoxic carcinogens, it typically extrapolates a dose-response line several orders of magnitude below the data cutoff from high-dose toxicity studies. Now, a group led by George S. Bailey of Oregon State University has examined 40,800 rainbow trout to determine the incidence of cancer from exposure to extremely low doses of a polyaromatic hydrocarbon

**Dr. Abby Benninghof [Nonstick chemical pollutes water at notable levels](#) (Science News)**

A new study finds evidence that people may be exposed through drinking water to a persistent nonstick chemical at levels approaching those that trigger adverse effects in laboratory animals. Abby D. Benninghoff, a PFOA toxicologist at Oregon State University in Corvallis, finds the proposed New Jersey safety limit for PFOA pretty convincing.

**Dr. Staci Simonich [OSU scientists lead study on danger of certain air pollution](#) (Oregonian)**

Scientists at Oregon State University and China's Peking University hope a new partnership will help understand the health impact and cancer-causing potential of certain air masses and where they come from.



**Dr. David Williams [OSU to head major national program to study health risks of 'PAH' toxins](#) (Science Centric)**

Oregon State University has been chosen as the home of a new Superfund Research Program, and will use a \$12.4 million, four-year grant to study the health risks and impacts of polycyclic aromatic hydrocarbons - an increasing health risk due to air pollution coming from Asia.

## New Faces in the Department



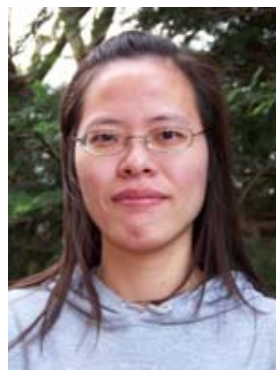
Will Backe

Chemistry Graduate Student  
**Field Lab**



Leah Gonzales

Chemistry Graduate Student  
**Simonich Lab**



Narumol Jariyasopit

Chemistry Graduate Student  
**Simonich Lab**



Carlos Manzano  
Graduate Student  
**Simonich Lab**



Ben Place  
Graduate Student  
**Field Lab**



Jill Schrlau  
Faculty Research Assistant  
**Simonich Lab**



Carmen Boone  
Research Assistant  
**NPIC**

## Promotions



**Dr. Kim Anderson**  
**Anderson Laboratory**

Promotion to Professor of Environmental and Molecular Toxicology



**Gwendolyn Ellen**  
**IPPC**

Promotion to Senior Faculty Research Assistant of Environmental and Molecular Toxicology



**Tim Stock**  
**IPPC**

Promotion to Senior Instructor of Environmental and Molecular Toxicology

## Babies



Melody Johnson of NPIC gave birth to Bryce Roth Johnson on April 18, weighing in at 8 lb. 13 oz and 21.5 inches long. Congratulations Melody!

## New EMT Grant Awards

PI	Title	Agency	Awarded
Dr. David Williams	Ultra-Lose Dose Supplement	NIH	\$108,720
Dr. Robert Tanguay	SCP 61509 Tanguay Atrazine EFF	Syngenta Crop Protection, Inc.	\$73,339
Dr. Sam Bennett	Discovery of Urinary Biomarkers for Obesity-related Chronic Kidney Disease	Erkkila Foundation	\$16,000
Dr. Craig Marcus; John Henning	Research Support Agreement - Genomics, Germplasm Development and IPM of Hop	USDA-ARS	\$20,000
Dr. Robert Tanguay	Matching Funds for Tanguay NIEHS R01 ES016896-01	ONAMI	\$185,000
Dr. Jennifer Field	UW Quantitative Drug Surveillance System	University of Washington	\$ 145,390
Dr. William Baird	Inhibition of Cancer Induction of Red Raspberry extract and Component Cyanedin-3-0-Glucoside	USDA	\$35,000

Dr. David Williams

PAHs: New Technologies and Emerging Health Risks

NIEHS

\$11,408,000

## News From Team Tox

### EMT Departmental Seminars - Summer 2009

**Scott Burchiel**

Environmental PAHs: Signaling in Human Lung and Mammary Epithelial Cells

June 22, 12:00 PM, ALS 4001

July

TBD

**Gary Perdew**

Differing Mechanisms of Ah Receptor Mediated Regulation of Gene Expression: Evidence for Selective Activation of the Ah Receptor

August 17, 11:00 AM ALS 4001

If you wish to nominate, organize or host a speaker for the Departmental Seminar please contact:

[osu.emt.seminar@gmail.com](mailto:osu.emt.seminar@gmail.com)

The 2009 EMT Departmental Seminar Committee

Britton Goodale

Tamara Tal

Wendy Hillwalker

Phil Janney

Norman Forsberg

The **TEAMTox Social/Fundraising Committee** and the **EMT department** recently held their first Spring Picnic at Thompson Shelter in Avery Park. The event was well attended by students, faculty, staff, friends, family members and pets. The weather was gorgeous and a good time was had by all. Thanks to everyone for bringing delicious edible contributions! (photos below). The Committee is also establishing a **monthly Social Hour**, held at various local restaurants in Corvallis. The first social hour was held at Block 15 and provided a great opportunity for inter-lab conversation and some mid-week socializing. Social hours will continue to be announced and we are looking forward to seeing everyone there. As always, friends and family are welcome to come socialize with TEAMTox-ers. Our next social hour will be held July 9th at 4:30pm, at Old World Deli.







## Lab News:

## Harper Lab

- Stacey Harper will serve as Vice-President Elect for the Society of Toxicology, Pacific Northwest Chapter 2009-2010.
- Stacey Harper joins the cancer bioinformatics grid (caBIG) Integrative Cancer Research Nano Working Group in May, 2009. The WG aims to align, merge, coordinate and harmonize research efforts around data, ontologies and information standards in nanotechnology.
- Stacey Harper presented a talk entitled “SNNI Activities in NanoEHS” at the Regional, State and Local Initiatives in Nanotechnology Workshop hosted by the National Nanotechnology Coordination Office on April 2, 2009.

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## NPIC

Service-

Dr. Stone finished his term as chair of the State’s Persistent Pollutant Science Workgroup, convened by the Oregon Department of Environmental Quality. The task of the workgroup was to identify and prioritize persistent, bioaccumulative and toxic chemicals in Oregon waters, per Senate Bill 737.

Stone DL, Sudakin DL, Jenkins JJ. Longitudinal trends in organophosphate incidents reported to the National Pesticide Information Center, 1995–2007 Environmental Health 2009 April, 8:18.

<http://www.ehjournal.net/content/8/1/18>

Yesterday’s Orchard...Today’s Home: Legacy Pesticides on Former Orchard Property, OSU Extension Services, EC 1513, March 2009  
Stone D, Anderson K

\*\*\*\*\*

## Sudakin Lab

Sudakin DL, Power LE. Regional variation in the severity of pesticide exposure outcomes: applications of geographic information systems and spatial scan statistics Clin Toxicol (Phila). 2009 Mar;47(3):243-52.  
PMID: 19306192 [PubMed - indexed for MEDLINE]

[http://www.ncbi.nlm.nih.gov/pubmed/19306192?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/19306192?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

Sudakin D, Power LE. Regional and temporal variation in methamphetamine-related incidents: applications of spatial and temporal scan statistics. Clin Toxicol (Phila). 2009 Mar;47(3):243-7.  
PMID: 19225949 [PubMed - indexed for MEDLINE]

[http://www.ncbi.nlm.nih.gov/pubmed/19225949?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed\\_ResultsPanel.Pubmed\\_DefaultReportPanel.Pubmed\\_RVDocSum](http://www.ncbi.nlm.nih.gov/pubmed/19225949?ordinalpos=3&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

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## Williams Lab

Dr. Dave Williams has been selected by the Faculty Recognition Committee as the 2009 recipient of the *OSU Alumni Association Distinguished Professor Award*. This award will be presented to Dave on September 23rd at an evening event and will be highlighted during University Day on September 24th.

G.S. Bailey, A.P. Reddy, C.B. Pereira, U. Harttig, W. Baird, J.M. Spitsbergen, J.D. Henricks, G.A. Orner, D.E. Williams, and J.A. Swenberg Nonlinear cancer response at ultralow dose: A 40800-animal ED001 tumor and biomarker study. Chemical Research Toxicology

<http://pubs.acs.org/doi/abs/10.1021/tx9000754>

(This Manuscript was hi-lighted in a CE&N Article listed above)

Krueger SK, Henderson MC, Siddens LK, VanDyke JE, Benninghoff AD, Karplus PA, Furnes B, Schlenk D and Williams DE (2009) Characterization of sulfoxxygenation and structural implications of human flavin-containing monooxygenase isoform 2 (FMO2.1) variants S195L and N413K. *Drug Metab Dispos* doi: 10.1124/dmd.109.027201. PMC Journal - In Process.

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