



Collaborative on Health and the Environment - Washington



Biweekly Bulletin February 24, 2010

This bulletin lists upcoming events plus recent announcements, news and journal articles, calls for proposals and other items related to learning environmental contributors to human health in Washington State and the Pacific Northwest. They are archived and searchable on our website: <http://washington.chenw.org/bulletins.html>

CHE-WA Highlights

Additions to CHE's Online Calendar

CHE's searchable [calendar of events](#) now lists upcoming deadlines for funding proposals and calls for conference abstracts. We invite partners to submit events and deadlines for inclusion in the calendar.

Lessons Learned

Gerhard Schrader - "Father of the Nerve Agents"

by Steven G. Gilbert, PhD, DABT

Dr. Gerhard Schrader (February 25, 1903-1990) was a German chemist who specialized in the discovery of new insecticides. He hoped to make progress in the fight against hunger in the world but is best known for his accidental discovery of nerve agents such as sarin and tabun.

On December 23, 1936, Dr. Schrader of the I.G. Farbenindustrie laboratory in Leverkusen first prepared Tabun (ethyl dimethylphosphoramidocyanidate, GA). He also discovered Sarin, Soman, and Cyclosarin while attempting to develop new insecticides. These highly toxic gases were used by the Nazis during World War II. Dr. Schrader is sometimes called the "father of the Nerve Agents."



Millions of pounds of pesticides are used by home owners in the urban environment and by farmers in agriculture. Insecticides attack the nervous system of insects and humans, causing a range of health effects, including death. The developing nervous system of children is particularly vulnerable. Integrated pest management (IPM) offers alternatives to controlling pests, both plant and insects, with minimal or no use of pesticides.

Learn more:

Gerhard Schrader: <http://toxipedia.org/x/DQU>

Pesticides: <http://toxipedia.org/x/sQQ>

Integrated pest management (IPMopedia): www.ipmopedia.org

Looking back to go forward

Lessons Learned is a CHE-WA bulletin feature focusing on an historical event that provides an important lesson for ensuring a more sustainable and healthy environment. Please feel free to send suggestions to [Steve Gilbert](#).

Announcements

A daily news feed with articles and announcements is available on CHE's website: <http://www.healthandenvironment.org/news/announce>.

[Call for comments: Pesticides: Draft Guidance for Pesticide Registrants on Pesticide Drift Labeling.](#)

US Environmental Protection Agency has proposed guidance for new pesticide labeling to reduce off-target spray and dust drift in a draft Pesticide Registration (PR) Notice. The new instructions, when implemented, will improve the clarity and consistency of pesticide labels and help prevent harm from spray drift.

[EPA increases transparency of proposed regulations.](#)

The U.S. Environmental Protection Agency (EPA) is launching a new website giving the public additional opportunity to participate in the agency's rulemaking process. The online Rulemaking Gateway serves as a portal to EPA's priority rules, providing citizens with earlier and more concise information about agency regulations. It also allows users to search for EPA rules that relate to specific interests, including impacts on small business; children's health; environmental justice; and state, local and tribal government.

[Final rule reduces air toxics from existing stationary diesel engines.](#)

The U.S. Environmental Protection Agency (EPA) is setting the first standards that will reduce emissions of formaldehyde, benzene, acrolein and other toxic air pollutants from certain stationary diesel engines. These pollutants are known or suspected to cause cancer or other serious health problems and environmental damage.

[Updated guide: Grow Smart, Grow Safe.](#)

The sixth edition of this guide includes environmental and health ratings of 600 pesticides, fertilizers and soil amendments, offering a comprehensive guide to lawn and garden products.

[Call for proposals: Developing Public Health Capacity and Adaptations to Reduce Human Health Effects of Climate Change.](#)

This funding opportunity award (FOA) will build the capacity of state health departments, U.S. Territories, and Native American Tribal Health agencies to address the public health consequences of climate change and its implications on human health. The deadline for letters of intent is March 22, 2010.

[Call for proposals: Environmental Health Sciences Core Center Grants.](#)

The National Institute of Environmental Health Sciences (NIEHS) invites applications from qualified institutions for support of Environmental Health Sciences (EHS) Core Centers. These Centers are designed to establish innovative programs of excellence in the field of environmental health sciences by providing scientific and programmatic support for promising investigators and areas of research. Letters of intent are due March 1st.

Upcoming Events

Online Calendar. These and more upcoming events are listed in a searchable calendar: <http://www.chenw.org/cgi-bin/searchevents.cgi>.

1) Reducing PBDEs in the Columbia River Basin

Thursday February 25, 2010

Portland, Oregon

at the Ambridge Events Center, 1333 NE Martin Luther King Drive

Sponsor: Columbia River Toxics Reduction Working Group

This watershed-based workshop will provide a forum to discuss strategies for reducing toxic contamination in the Columbia River Basin and involve local watershed councils, communities, agriculture, industry, tribal, federal and state governments, and nonprofit organizations. Please preregister by February 15th.

Price: unknown

[Visit the website](#)

Contact: Jason Braaten, 503-326-3250 or braaten.jason@epa.gov

2) Leadership In Green Health Care Course

February 27 - April 24, 2010

Sponsor: Teleosis Institute

Leadership In Green Health Care prepares health professionals to become leaders in the emerging discipline of Sustainable Medicine. Sustainable medicine recognizes the link between the environment, medicine and human health and seeks to provide better health care while protecting our limited environmental and medical resources. The Leadership in Green Health Care course reviews the most up-to-date theory and research behind sustainable medicine and introduces participants to the best practices for initiating green health care -- from greening their offices, to offering affordable and renewable medical treatments, and promoting community and environmental health. Participants collaborate online to exchange strategies and pioneer ideas for effecting change within their communities and medical practices. The online, interactive dialogue among like-minded professionals creates a supportive and inspiring learning environment. Continuing education credits are available for physicians and nurses.

Price: \$945 for nonmembers, \$695 for members of Practice Greenhealth, \$350 for students in the health-care field

[Visit the website](#)

Contact: see the [Contact page](#)

3) Environmental Justice and Air Quality at the US-Mexico Border: Case Studies

Thursday March 4, 2010

12:30 - 1:20 p.m.

Seattle, Washington

at the University of Washington School of Public Health, room HSB D-209

Sponsor: University of Washington Department of Environmental and Occupational Health Sciences

The speaker will be Dr. PJE Quintana, associate professor at San Diego State University.

Price: free

[Visit the website](#)

4) Second Annual Northwest Environmental Health Conference

March 5 - 6, 2010

Portland, Oregon

at Oregon Health and Sciences University

Sponsor: Oregon Environmental Council, Oregon Student Nurses Association, Oregon Chapter of Physicians for Social Responsibility, Multnomah County Environmental Health Services, Health Care Without Harm and others

This conference will host leading scientists, researchers and healthcare professionals in the field of environmental health and will focus on stimulating robust dialogue regarding the impact of the environment on health and healthcare practices. March 5th will cover current basic science, new approaches to patient care, facilities management and community practice, as well as policy issues surrounding environmental health. March 6th will be comprised of workshops providing hands-on training utilizing environmental health technology and toolkits for practitioners, educators, and advocates.

Price: March 5th: \$50 or \$25 for students; CNE credits and/or parking are available for additional fees

March 6th: Workshops are \$25 or \$15 for students

[Visit the website](#)

5) Elements of the New Economy: Green Chemistry in the Pacific Northwest

Monday and Tuesday, March 8 - 9, 2010

Seattle, Washington

at the Edgewater Hotel, downtown

Sponsor: The Bullitt Foundation, Kendeda Fund, Health and Environmental Funders Network, Advancing Green Chemistry, and Environmental Health Sciences

This is a special briefing for funders to explore green chemistry and its current and future contributions to the Pacific Northwest's economy. What would the Pacific Northwest economy look like if designed by Green Chemists? How would life in the Pacific Northwest be different if Green Chemistry were widely adopted?

Price: There is no cost to attend, though participants must cover their own travel and lodging.

[Visit the website](#)

Contact: Advancing Green Chemistry, 434-220-3701 or
registrar@advancinggreenchemistry.org

6) Poisoned For Profit: The Toxic Assault on Our Children and Why It Continues

Tuesday March 9, 2010

2:00 - 3:00 p.m. Eastern time

Sponsor: American Association on Intellectual and Developmental Disabilities
Environmental Health Initiative

Alice Shabecoff's webinar presentation will begin with an overview of the epidemic of chronic childhood illnesses among American children today and what is now known about the role toxics, from man-made chemicals and heavy metals to nuclear waste, play in triggering that epidemic. She will offer a layman's understanding of a few of most recent scientific breakthroughs - gene expression, polymorphisms, and endocrine disruption - that allow us to assert that there's a cause-and-effect connection. The major part of the talk will focus on the topic of corporate America's knowing acts of repeated pollution, enabled by their network of hired scientists, lawyers, p.r. professionals and legislators. Alice hopes to engage in a give-and-take discussion of what we can all do to counteract the power of polluters. Registration is required: [open the registration page](#).

Price: free

[Visit the website](#)

Contact: Laura Abulafia, Laura@aaidd.org

7) Health Risk Assessment Workshop: Practical Approaches to Estimating Risk and Developing Site-specific Cleanup Levels

Thursday and Friday, March 11 - 12, 2010

8:30 a.m. to 5:00 p.m.

Kirkland, Washington

at the Kirkland Computer Lab, Yarrow Bay Office Park, One North Building, 10604 NE 38th Place, Suite 118

Sponsor: Northwest Environmental Training Center

Risk assessments are now being performed at almost all sites, whether part of a Risk-Based Correction Action (RBCA) analysis, to determine remediation strategies, or for litigation support and prevention. This class is hands-on, covering each of the steps in a risk assessment. Emphasis will be placed on fate and transport modeling to estimate exposure point concentrations. RISC software will be used for classroom exercises, however the principles learned are can be applied to other risk-assessment software.

Each participant will have their own computer workstation throughout the class.

Price: \$945/\$895

[Visit the website](#)

Contact: NWETC, 206-762-1976

8) A Conversation with Linda Birnbaum, Director of the National Institute of Environmental Health Sciences

Monday March 15, 2010

10:00 a.m. Pacific / 1:00 p.m. Eastern time

Sponsor: Collaborative on Health and the Environment

We will hear from Birnbaum on the priorities and challenges facing the NIEHS in the coming years as well as discuss other pressing environmental health concerns.

Price: free

[Visit the website](#)

Contact: CHE, info@healthandenvironment.org

News and Journal Articles

[Childhood poverty can alter kids' brains.](#)

Tuesday, February 23, 2010

Living in poverty can shape the neurobiology of a developing child "in powerful ways", affecting children's behaviour, health and how well they do later in life, a study presented here on Sunday shows. Agence France-Presse.

[See a related article: [In sickness and in health](#)]

[The true cost of tobacco.](#)

Tuesday, February 23, 2010

Researchers find that poor smokers' children are the victims of the habit: Their nutrition takes a hit when their parents divert precious resources to pay for tobacco. Miller-McCune.

[See related articles: [Secondhand smoke raises TB risk: study](#) and [Cigar, pipe smoking may raise lung disease risk, too](#)]

[IVF may raise risk of diabetes, hypertension and cancer in later life.](#)

Tuesday, February 23, 2010

While IVF is generally considered to produce healthy babies, doctors have identified subtle genetic changes that may raise the risk of particular medical conditions in later life. London Guardian, United Kingdom.

[Using systematic reviews and meta-analyses to support regulatory decision-making for neurotoxicants: Lessons learned from a case study of PCBs.](#)

Monday, February 22, 2010

Our findings add support to previous calls for establishing consensus standards for the conduct, analysis and reporting of epidemiologic studies in general, and for those evaluating the effects of potential neurotoxic exposures in particular. Environmental Health Perspectives.

[Law slows efforts to control chemical used by dry cleaners.](#)

Monday, February 22, 2010

For dry cleaning, nothing gets stains out like perchloroethylene. But for decades, officials at the U.S. EPA have been studying the chemical as a cancer threat. That points to an even-bigger problem - a federal law that keeps the government from protecting people from dangerous chemicals. Columbus Dispatch, Ohio.

[Toxic electronic waste poses increasing risk.](#)

Monday, February 22, 2010

Developing countries face increasing environmental and health hazards from electronic waste unless toxic materials are collected and recycled properly, according to a United Nations report released on Monday. Deutsche Presse-Agentur, Germany.

[See a related article: [UN conference to tackle growing problem of 'e-waste'](#)]

[Scientists vacuum up the data on dust.](#)

Saturday, February 20, 2010

Most public health focus has been on particulates from human sources, such as from combustion of fossil fuels, but there is increasing attention to potential health effects from dust from such sources as volcanic ash or of smoke and ash from wildfires.

Associated Press.

[Diabetes helps explain obesity-birth defect link.](#)

Saturday, February 20, 2010

Studies on whether obesity raises the odds of birth anomalies such as spina bifida, cleft palate and heart defects have so far come to conflicting conclusions. One question is whether obesity, per se, is the problem -- or whether certain factors associated with obesity are at work. Reuters Health.

[Very high omega-3 intakes linked to big health benefits.](#)

Friday, February 19, 2010

High levels of the omega-3 fatty acids EPA (eicosapentaenoic acid) and DHA (docosahexaenoic acid) were associated with lower levels of triglycerides, as well as higher levels of HDL cholesterol. NutraIngredients-USA.com.

[See a related article: [Omega-3, vitamins, minerals may reduce aggressive behaviour](#)]

[Association of vitamin B-6 status with inflammation, oxidative stress, and chronic inflammatory conditions: the Boston Puerto Rican Health Study.](#)

Friday, February 19, 2010

Low vitamin B-6 concentrations are associated with inflammation, higher oxidative stress, and metabolic conditions in older Puerto Rican adults. American Journal of Clinical Nutrition.

[Glaxo to halt production of Poligrip with zinc.](#)

Friday, February 19, 2010

The maker of Poligrip denture cream will stop making formulas containing zinc amid lawsuits claiming years of excessive use caused neurological damage and blood problems in consumers, allegedly crippling some. Associated Press.

[The aftertaste of more milk and meat.](#)

Friday, February 19, 2010

The links between diseases, livestock and climate change are raised in the flagship annual report of the UN Food and Agriculture Organization (FAO), which put the spotlight on livestock. UN IRIN.

[See a related article: [Does red meat give you bowel cancer?](#)]

[Use of emerging science and technologies to explore epigenetic mechanisms underlying the developmental basis for disease.](#)

Thursday, February 18, 2010

On July 30 - 31, 2009, the National Academies Standing Committee on the Use of Emerging Science for Environmental Health Decisions held a public workshop to further understanding of the implications of epigenetic effects on public health and of the research that would be most important for efforts to inform public health leaders about epigenetic effects of chemicals. Emerging Science for Environmental Health Decisions.

[The 'cancer risk' of frying steak on a gas hob.](#)

Thursday, February 18, 2010

Scientists believe hotter gas flames release more harmful chemicals from oil in the cooking process and warn that chefs may be particularly at risk. London Daily Mail, United Kingdom.

[Consumer agency tells industry to put safety first.](#)

Thursday, February 18, 2010

One of the nation's top safety officials is delivering a stern warning to the makers of toys, cribs and other children's products, telling them to put safety first -- or face potential fines, lawsuits or other actions. Associated Press.

[Influenza vaccines: Poor evidence for effectiveness in elderly.](#)

Wednesday, February 17, 2010

Evidence for the safety and efficacy of influenza vaccines in the over 65s is poor, despite the fact that vaccination has been recommended for the prevention of influenza in older people for the past 40 years. Science Daily.

[Report compares health county-by-county.](#)

Wednesday, February 17, 2010

For the first time, a new report reveals how counties across America stack up when it comes to health. Today, whether you live in Malibu or Atlanta, you can learn if your community is holding its own in health. USA Today.

[See related articles: [Chronic health conditions increasing in children, study finds](#) and [Immigrants struggle with declining health](#)]

[Study finds C8 in wide variety of foods.](#)

Wednesday, February 17, 2010

Researchers have found low levels of the toxic chemical C8 [also known as perfluorooctanoic acid or PFOA] in a wide variety of foods, ranging from hamburgers and bacon to tilapia, olive oil and peanut butter, according to a new scientific paper. Charleston Gazette, West Virginia.

[The case against plastics and BPA.](#)

Tuesday, February 16, 2010

The future of certain plastics isn't looking so bright thanks to BPA (or bisphenol-A), a chemical that seeps out of some plastic products and ends up in us. A growing number of studies is raising health concerns. Miami Herald, Florida.

[See related articles: [Bans sought for chemical BPA in baby, toddler products](#); [Assembly backs limits on BPA in baby bottles](#); [Oregon Senate shoots down ban on BPA in baby bottles, sippy cups](#); [Md. hearing held to ban BPA in baby products](#); [Flawed experimental design reveals the need for guidelines requiring appropriate positive controls in endocrine disruption research](#) and [Alternatives to BPA containers not easy for U.S. foodmakers to find](#), plus guidance from the Food and Drug Administration: [Update on bisphenol A for use in food contact applications: January 2010](#)]

[Human testing at heart of debate over U.S. toxics law.](#)

Tuesday, February 16, 2010

Scientific advances that have made it possible to detect the tiniest traces of chemicals in the human body and the environment are shaping efforts to modernize U.S. chemical policies and regulations. Greenwire.

[See related articles: [Vermonters surprised by chemicals found in their bodies](#) and [Study: Bay Area girls have higher chemical levels than others](#)]

[Occupation a key factor in men's lung cancer risk.](#)

Tuesday, February 16, 2010

Men who work in certain occupations continue to be at increased risk of lung cancer, new research from Italy shows. Reuters Health.

[See a related article: [Cancer rates in Nashville firefighters linked to diesel fumes](#)]

[Project to reduce mercury in lakes gets good reviews.](#)

Tuesday, February 16, 2010

While scientists might not know why a popular fishing spot is so polluted, they think they might have a means of dramatically reducing the danger levels. Salt Lake Tribune, Utah.

[See related articles: [Mackenzie River's fish contaminated with dangerous toxins: Scientists](#), [Too much mercury in canned tuna -- or is there?](#) and [Mercury on the loose](#)]

[Benzene exposure linked to sperm abnormalities that cause birth defects.](#)

Tuesday, February 16, 2010

Men exposed to benzene at levels close to the U.S. permissible limit are more likely to have an abnormal number of chromosomes in their sperm, researchers report. Environmental Health News.

[Wanted: Volunteers, all pregnant.](#)

Tuesday, February 16, 2010

Authorized by Congress in 2000, the National Children's Study began last January. With several hundred participants so far, it aims to enroll 100,000 pregnant women in 105 counties, then monitor their babies until they turn 21. New York Times.

[Salmonella blamed as hundreds fall ill after eating Italian sausages.](#)

Monday, February 15, 2010

Federal officials say 225 people in 44 states and the District are thought to have been sickened by salmonella in imported black pepper used in the preparation of salami and other types of Italian sausage made by a Rhode Island company. Washington Post.

[See related articles: [Why some foods are riskier today](#) and [Washington company recalling 3 soft cheeses](#)]

[Pesticide exposure, family history raise risk of prostate cancer.](#)

Monday, February 15, 2010

A study of professional pesticide applicators suggests that exposure to the insecticide coumaphos may increase their risk of prostate cancer if they had a family history of the disease. Environmental Health News.

[See related articles: [Weed killer in the crosshairs](#), [Underactive thyroid linked to pesticide exposure](#), [Experts warn that any type of pesticide can be dangerous](#), [Study: Salinas Valley house dust carries pesticides](#), [Pesticide use and cutaneous melanoma in pesticide applicators in the Agricultural Health Study](#), [Pesticides to blame for wave of Parkinson's in Israeli Arab town](#), [Researchers say toxic pesticides poisoning Indonesia's farmers](#)]

[Breast cancer fears grow around household cleaners.](#)

Monday, February 15, 2010

Doctors and environmental scientists are growing more concerned that chemicals found in many household cleaning supplies, such as floor cleaners and glass cleaners, are behind the ongoing increase in breast cancer cases in the U.S. Daily Finance.

[See related articles: [Key cancer gene 'link to poverty](#) and [Using residential history and groundwater modeling to examine drinking water exposure and breast cancer](#)]

[New safety rules for school lunches due by July.](#)

Monday, February 15, 2010

By this summer, the U.S. Department of Agriculture will have launched its most sweeping safety reforms in a decade for the food it buys for school lunches. USA Today.

[Study finds traffic pollution can speed hardening of arteries.](#)

Sunday, February 14, 2010

Los Angeles residents living near freeways experience a hardening of the arteries that leads to heart disease and strokes at twice the rate of those who live farther away, a study has found. Los Angeles Times, California.

[See related articles: [Air pollution and mortality in the Canary Islands: a time-series analysis](#), [New Jersey restaurants cooking up pollution along with pizza and hamburgers](#), [Study delay creates alarm over school heaters](#), [Kids at schools close to busy roads breathe more pollution](#), [Pollution: the biggest killer on Britain's roads](#), [City plans phaseout of 'dirty oil'](#) and [Something in the air](#)]

[Electromagnetic field studies reach different conclusions.](#)

Sunday, February 14, 2010

How could respectable scientists armed with the same data on electromagnetic fields end up on opposite sides of the spectrum? The studies themselves are largely to blame. Some suggest a link between EMF and health problems, and some don't. Los Angeles Times, California.

[See a related article: [On different wavelengths over EMFs](#)]

[Toxicologists say methyl iodide poses health risks.](#)

Friday, February 12, 2010

An independent panel of toxicologists, asked by state regulators to assess the potential risks of a controversial new soil fumigant called methyl iodide, being considered as a replacement for ozone-damaging methyl bromide, say it presents "significant health risks." Ventura County Star, California.

[Even if you're careful, drugs can end up in water.](#)

Thursday, February 11, 2010

The federal government advises throwing most unused or expired medications into the trash instead of down the drain, but they can end up in the water anyway, a study from Maine suggests. Associated Press.

[Cleaning naturally improves indoor air quality.](#)

Thursday, February 11, 2010

While commercial cleaning products present a bevy of environmental health hazards, there are plenty of natural cleaning solutions that will keep you and your family healthy and squeaky-clean. San Mateo Daily Journal, California.

[Bipartisan effort to improve air quality.](#)

Thursday, February 11, 2010

A bipartisan group of senators has introduced a bill that would sidestep the stalled climate debate on carbon emissions and reduce other harmful gases by large margins in the next few years. Scripps Howard News Service.

[Spent ammo's harm to environment is debated.](#)

Thursday, February 11, 2010

Lead in paint, gasoline and drinking water is prohibited as dangerous for health and the environment. But tons of lead from ammunition can accumulate on the ground over years. No federal law addresses lead containment at outdoor shooting ranges. Nashville Tennessean, Tennessee.

[See a related article: [Former ammunition employees suffer health effects](#)]

[Mom's anemia may raise schizophrenia risk in offspring.](#)

Thursday, February 11, 2010

Doctors have long recommended iron supplements for the support of a healthy pregnancy, but new research adds even more weight to the sage advice: By increasing her iron intake, a pregnant woman may also decrease her baby's risk of schizophrenia later in life. Reuters Health.

[See a related article about problems associated with too much iron: [Blood pressure, "rich" blood affect baby's growth](#)]

[Do PCBs at local schools pose a health risk?](#)

Thursday, February 11, 2010

Scientific research shows that PCBs seep into the environment even when hiding undisturbed in window caulking as they were in some local schools. Bronx Riverdale Press, New York.

[Perfluorinated compounds, polychlorinated biphenyl, and organochlorine pesticide contamination in composite food samples from Dallas, Texas.](#)

Wednesday, February 10, 2010

Despite product bans, POPs were found in U.S. food and mixtures of these chemicals are consumed by the American public at varying levels. Environmental Health Perspectives.

[Despite billions spent on cleanup, Hanford won't be clean for thousands of years.](#)

Wednesday, February 10, 2010

Some radioactive contaminants at the Hanford Nuclear Reservation will threaten the Columbia River for thousands of years, a new analysis projects, despite the multi-billion dollar cleanup efforts by the federal government. Portland Oregonian, Oregon.

[Target pulls Valentine's toys over lead concerns.](#)

Wednesday, February 10, 2010

Target Corp. said Tuesday it was pulling its Valentine's Day "Message Bears" from store

shelves after California's attorney general raised concerns that the toys have illegal levels of lead. Associated Press.

[F.D.A. to increase oversight of medical radiation.](#)

Wednesday, February 10, 2010

The F.D.A. said Tuesday that it would take steps to more stringently regulate three of the most potent forms of medical radiation, including increasingly popular CT scans, some of which deliver the radiation equivalent of 400 chest X-rays. New York Times.

[See a related article: [CT scan rules developed to cut kids' exposure to unnecessary radiation](#)]

The Collaborative on Health and the Environment offers this information as a service but does not endorse any of the events, articles or announcements.

Companion bulletins are available for different audiences:

- For those interested in general children's environmental health: http://www.healthandenvironment.org/working_groups/childrens_health/bulletins
- For those interested in environmental health and learning and developmental disabilities: <http://www.iceh.org/LDDIbulletins.html>

While there is overlap with this bulletin, there are some events and announcements unique to those bulletins.

If you would like to join the Collaborative on Health and the Environment (CHE) and the Washington State Regional Group, please complete the application on the CHE website: <http://www.healthandenvironment.org/application> Joining CHE means receiving up to four email messages a month from the CHE National listserv. CHE costs nothing to join and the benefit is shared information and opportunities for further engagement, if you choose. Be sure to mark that you want to join the Washington State regional group at the bottom of the application.

Nancy Snow
Collaborative on Health and the Environment

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