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FOCUS

Chemical Aftermath: Contamination and Cleanup Following the Tohoku Earthquake and Tsunami

Winifred A. Bird, Elizabeth Grossman
A290–A301 | <http://dx.doi.org/10.1289/ehp.119-A290>

The Tohoku earthquake and tsunami of 11 March 2011 struck some of Japan's most industry-intensive areas. Assessing the damage caused by this disaster is a massive undertaking that will continue for years to come. Of the public health issues Japan must address in the months and years ahead, arguably one of the most essential is assessing and mitigating the environmental impact of chemical contaminants released during the disaster.

FORUM

Can Cigarette Alternatives Deliver a Safer Fix?

Cynthia Washam
A286–A287 | <http://dx.doi.org/10.1289/ehp.119-A286>

Gate Wait for Better Air

Carol Potera
A288 | <http://dx.doi.org/10.1289/ehp.119-A288a>

Methane Found in Well Water Near Fracking Sites

David C. Holzman
A289 | <http://dx.doi.org/10.1289/ehp.119-A289>

The Beat

Erin E. Dooley
A288–A289 | <http://dx.doi.org/10.1289/ehp.119-A288b>

INNOVATIONS



Phosphorus Recovery: New Approaches to Extending the Life Cycle

Tim Lougheed
A302–A305 | <http://dx.doi.org/10.1289/ehp.119-A302>

Given concerns about the possibility that phosphorus deposits around the world will eventually be depleted at the current rate of mining and use, new technological advances could be crucial in helping us retain access to this essential mineral. Today investigators are developing and implementing novel ideas and methods to recapture and reuse phosphorus from animal and human waste.

SCIENCE SELECTIONS

Thyroid Cancer after Chernobyl: Increased Risk Persists Two Decades after Radioiodine Exposure

Valerie J. Brown
A306 | <http://dx.doi.org/10.1289/ehp.119-A306a>

Plastics and Food Sources: Dietary Intervention to Reduce BPA and DEHP

Kellyn S. Betts
A306 | <http://dx.doi.org/10.1289/ehp.119-A306b>

PCBs May Impede IVF Success: Failed Embryo Implantation Linked to Exposure

Julia R. Barrett
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A Shift in Policy? Learning from China's Environmental Challenges and Successes

M. Nathaniel Mead
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COMMENTARIES

Environmental Lessons from China: Finding Promising Policies in Unlikely Places

Justin V. Remais, Junfeng Zhang
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Evaluation Criteria for Publishing in Top-Tier Journals in Environmental Health Sciences and Toxicology

Byung-Mu Lee
896–899 | <http://dx.doi.org/10.1289/ehp.1003280>

REVIEW

Neurotoxicity of Brominated Flame Retardants: (In)direct Effects of Parent and Hydroxylated Polybrominated Diphenyl Ethers on the (Developing) Nervous System

Milou M.L. Dingemans, Martin van den Berg, Remco H.S. Westerink
900–907 | <http://dx.doi.org/10.1289/ehp.1003035>

RESEARCH

Occupational Solvent Exposure and Brain Function: An fMRI Study

Cheuk Ying Tang, David M. Carpenter, Emily L. Eaves, Johnny Ng, Nimalya Ganeshalingam, Clifford Weisel, Hua Qian, Gudrun Lange, Nancy L. Fiedler
908–913 | <http://dx.doi.org/10.1289/ehp.1002529>

Food Packaging and Bisphenol A and Bis(2-Ethyhexyl) Phthalate Exposure: Findings from a Dietary Intervention

Ruthann A. Rudel, Janet M. Gray, Connie L. Engel, Teresa W. Rawsthorne, Robin E. Dodson, Janet M. Ackerman, Jeanne Rizzo, Janet L. Nudelman, Julia Green Brody
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Ambient Air Pollution and Lipoprotein-Associated Phospholipase A2 in Survivors of Myocardial Infarction

Irene Brüske, Regina Hampel, Zita Baumgärtner, Regina Rückerl, Sonja Greven, Wolfgang Koenig, Annette Peters, Alexandra Schneider
921–926 | <http://dx.doi.org/10.1289/ehp.1002681>

Acute Effects of Fine Particulate Air Pollution on Cardiac Arrhythmia: The APACR Study

Fan He, Michele L. Shaffer, Sol Rodriguez-Colon, Jeff D. Yanosky, Edward Bixler, Wayne E. Cascio, Duanping Liao
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I-131 Dose Response for Incident Thyroid Cancers in Ukraine Related to the Chernobyl Accident

Alina V. Brenner, Mykola D. Tronko, Maureen Hatch, Tetyana I. Bogdanova, Valery A. Oliynik, Jay H. Lubin, Lydia B. Zablotska, Valery P. Tereschenko, Robert J. McConnell, Galina A. Zamotaeva, Patrick O’Kane, Andre C. Bouville, Ludmila V. Chaykovskaya, Ellen Greenebaum, Ihor P. Paster, Victor M. Shpak, Elaine Ron
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Prospective Cohort Study of Lead Exposure and Electrocardiographic Conduction Disturbances in the Department of Veterans Affairs Normative Aging Study

Ki-Do Eum, Linda H. Nie, Joel Schwartz, Pantel S. Vokonas, David Sparrow, Howard Hu, Marc G. Weisskopf
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Sickness Response Symptoms among Healthy Volunteers after Controlled Exposures to Diesel Exhaust and Psychological Stress

Robert J. Laumbach, Howard M. Kipen, Kathie Kelly-McNeil, Junfeng Zhang, Lin Zhang, Paul J. Lioy, Pamela Ohman-Strickland, Jing Gong, Alexander Kusnecov, Nancy Fiedler
945–950 | <http://dx.doi.org/10.1289/ehp.1002631>

TRPA1 and Sympathetic Activation Contribute to Increased Risk of Triggered Cardiac Arrhythmias in Hypertensive Rats Exposed to Diesel Exhaust

Mehdi S. Hazari, Najwa Haykal-Coates, Darrell W. Winsett, Q. Todd Krantz, Charly King, Daniel L. Costa, Aimen K. Farraj
951–957 | <http://dx.doi.org/10.1289/ehp.1003200>

Shorter Anogenital Distance Predicts Poorer Semen Quality in Young Men in Rochester, New York

Jaime Mendiola, Richard W. Stahlhut, Niels Jørgensen, Fan Liu, Shanna H. Swan
958–963 | <http://dx.doi.org/10.1289/ehp.1103421>

Inhalable Metal-Rich Air Particles and Histone H3K4 Dimethylation and H3K9 Acetylation in a Cross-sectional Study of Steel Workers

Laura Cantone, Francesco Nordio, Lifang Hou, Pietro Apostoli, Matteo Bonzini, Letizia Tarantini, Laura Angelici, Valentina Bollati, Antonella Zanobetti, Joel Schwartz, Pier A. Bertazzi, Andrea Baccarelli
964–969 | <http://dx.doi.org/10.1289/ehp.1002955>

Determinants of Agricultural Pesticide Concentrations in Carpet Dust

Robert B. Gunier, Mary H. Ward, Matthew Airola, Erin M. Bell, Joanne Colt, Marcia Nishioka, Patricia A. Buffler, Peggy Reynolds, Rudolph P. Rull, Andrew Hertz, Catherine Metayer, John R. Nuckols
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Prolonged Exposure to Particulate Pollution, Genes Associated with Glutathione Pathways, and DNA Methylation in a Cohort of Older Men

Jaime Madrigano, Andrea Baccarelli, Murray A. Mittleman, Robert O. Wright, David Sparrow, Pantel S. Vokonas, Letizia Tarantini, Joel Schwartz
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Variability of Urinary Concentrations of Bisphenol A in Spot Samples, First Morning Voids, and 24-Hour Collections

Xiaoyun Ye, Lee-Yang Wong, Amber M. Bishop, Antonia M. Calafat
983–988 | <http://dx.doi.org/10.1289/ehp.1002701>

Most Plastic Products Release Estrogenic Chemicals: A Potential Health Problem That Can Be Solved

Chun Z. Yang, Stuart I. Yaniger, V. Craig Jordan, Daniel J. Klein, George D. Bittner
989–996 | <http://dx.doi.org/10.1289/ehp.1003220>

A Retrospective Assessment of Occupational Exposure to Elemental Carbon in the U.S. Trucking Industry

Mary E. Davis, Jaime E. Hart, Francine Laden, Eric Garshick, Thomas J. Smith
997–1002 | <http://dx.doi.org/10.1289/ehp.1002981>

Glutamatergic Neurons in Rodent Models Respond to Nanoscale Particulate Urban Air Pollutants in Vivo and in Vitro

Todd E. Morgan, David A. Davis, Nahoko Iwata, Jeremy A. Tanner, David Snyder, Zhi Ning, Winnie Kam, Yu-Tien Hsu, Jeremy W. Winkler, Jiu-Chiuan Chen, Nicos A. Petasis, Michel Baudry, Constantinos Sioutas, Caleb E. Finch
1003–1009 | <http://dx.doi.org/10.1289/ehp.1002973>

CHILDREN'S HEALTH

Serum Concentrations of Polychlorinated Biphenyls in Relation to in Vitro Fertilization Outcomes

John D. Meeker, Arnab Maity, Stacey A. Missmer, Paige L. Williams, Shruthi Mahalingaiah, Shelley Ehrlich, Katharine F. Berry, Larisa Altshul, Melissa J. Perry, Daniel W. Cramer, Russ Hauser
1010–1016 | <http://dx.doi.org/10.1289/ehp.1002922>

Does Air Pollution Trigger Infant Mortality in Western Europe? A Case-Crossover Study

Hans Scheers, Samuel M. Mwalili, Christel Faes, Frans Fierens, Benoit Nemery, Tim S. Nawrot
1017–1022 | <http://dx.doi.org/10.1289/ehp.1002913>

The International Collaboration on Air Pollution and Pregnancy Outcomes: Initial Results

Jennifer D. Parker, David Q. Rich, Svetlana V. Glinianaia, Jong Han Leem, Daniel Wartenberg, Michelle L. Bell, Matteo Bonzini, Michael Brauer, Lyndsey Darrow, Ulrike Gehring, Nelson Gouveia, Paolo Grillo, Eunhee Ha, Edith H. van den Hooven, Bin Jalaludin, Bill M. Jesdale, Johanna Lepeule, Rachel Morello-Frosch, Geoffrey G. Morgan, Rémy Slama, Frank H. Pierik, Angela Cecilia Pesatori, Sheela Sathyanarayana, Juhee Seo, Matthew Strickland, Lillian Tamburic, Tracey J. Woodruff
1023–1028 | <http://dx.doi.org/10.1289/ehp.1002725>

Bioavailability of Cadmium in Inexpensive Jewelry

Jeffrey D. Weidenhamer, Jennifer Miller, Daphne Guinn, Janna Pearson
1029–1033 | <http://dx.doi.org/10.1289/ehp.1003011>

Urinary Biomarkers of Prenatal Atrazine Exposure and Adverse Birth Outcomes in the PELAGIE Birth Cohort

Cécile Chevrier, Gwendolina Limon, Christine Monfort, Florence Rouget, Ronan Garlantézec, Claire Petit, Gaël Durand, Sylvaine Cordier
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