

**Tuesday 25 August 2009**

**Opening Reception**

**Tuesday 25 August 2009, 18:00 - 20:00**

## Wednesday 26 August 2009

### Training Session

Wednesday 26 August 2009, 07:30 - 08:30

### Plenary Session 1: Making a Difference - Environmental Epidemiology Success Stories

Wednesday 26 August 2009, 08:30 - 10:00

Doug Dockery: USA,

Anna Hansell: UK,

Philippa Howden-Chapman: New Zealand

### Coffee

Wednesday 26 August 2009, 10:00 - 10:30

### OS1.1 - Symposium 29 - Health Impact Assessment of Global Environmental change: from Energy and Food Production Policy to Ecosystem Degradation and Environmental Justice

Wednesday 26 August 2009, 10:30 - 12:00

Chair: Jonathan Patz

HEALTH IMPACT ASSESSMENT OF ENERGY EFFICIENCY IMPROVEMENTS IN THE BUILT ENVIRONMENT IN PURSUIT OF CLIMATE CHANGE OBJECTIVES

Paul Wilkinson

Health co-benefits from green transportation: The Triple-Win Biking Project  
Maggie L. Grabow, Scott Spak, Jeff Sledge, Steve Ventura, Jonathan A. Patz

Building a framework to identify global health impacts of power generation systems  
Julia M. Gohlke, Simon Hales, Christopher J. Portier, Alistair Woodward, Diarmid Campbell-Lendrum, Annette Prüss-Üstün

Values, ethics and sustainability from an environmental justice perspective  
Colin L. Soskolne

### OS1.2 - Biomarkers of exposure

Wednesday 26 August 2009, 10:30 - 12:00

Certain Polyfluoroalkyl Chemicals Associated with Higher Cholesterol in the General U.S. Population

Jessica W. Nelson, Elizabeth E. Hatch, Thomas F. Webster

German Environmental Survey for children (GerES IV): phenanthrene *trans*-9,10-dihydrodiol as a biomarker for ETS-exposure of children

*Kerstin Becker, Andre Conrad, Gerhard Dettbarn, Helga Pick-Fuß, Christine Schulz, Margarete Seiwert, Marike Kolossa-Gehring, Albrecht Seidel*

Personal Care Products' Use and its Association with Urine Concentrations of Phthalate Metabolites

*Michelle Romero-Franco, Raúl U. Hernández-Ramírez, Antonia M. Calafat, Mariano E. Cebrián-García, Marcia Galván-Portillo, Luisa Torres-Sanchez, Larry L. Needham, Mary S. Wolff, Lizbeth López-Carrillo*

Urinary phthalates and breast cancer risk in Mexico

*Lizbeth López-Carrillo, Raúl U. Hernández-Ramírez, Antonia M. Calafat, Mariano E. Cebrián-García, Luisa Torres-Sanchez, Michelle Romero-Franco, Marcia Galván-Portillo, Larry L. Needham*

Exposure to Suspended Chromium Compounds in Air and Its Association with Urinary  $\beta$ -2-Microglobulin Level among Welders in an Automotive Components Manufacturing Plant, Selangor.

*Shamsul Bahari Shamsudin, Zakirah Maarof*

### **OS1.3 - Symposium 23 - Air Pollution and Pregnancy Outcomes: Harmonizing Existing Studies to Support New Innovations**

**Wednesday 26 August 2009, 10:30 - 12:00**

Ambient Air Pollution and Cardiac Malformations; A Register-based Spatio-temporal Analysis.

*Payam Dadvand, Judith Rankin, Stephen Rushton, Tanja Pless-Mulloli*

International Collaboration on Air Pollution and Pregnancy Outcomes (ICAPPO): Pilot Study Analytic Plan for Data Re-Analysis

*Jennifer Parker, David Rich, Jong-Han Leem, Svetlana Glinianaia*

Population attributable risk of low birth weight related to PM<sub>10</sub> pollution in 7 Korean cities.

*Ju-Hee Seo, Jong-Han Leem, Eun-Hee Ha, Ok-Jin Kim, Byung-Mi Kim, Ji-Young Lee, HyeSook Park, Yun-Chul Hong, Young-Ju Kim*

The International Collaboration on Air Pollution and Pregnancy Outcomes  
*Tracey Woodruff, Jennifer Parker, Kate Adams, Michelle Bell, Ulrike Gehring, Svetlana Glinianaia, Eun-Hee Ha, Bin Jalaludin, Remy Slama, Michelle Wilhelm*

## **OS1.4 - Environmental equity, air pollution and temperature**

**Wednesday 26 August 2009, 10:30 - 12:00**

Socioeconomic status modifies the association between hospitalizations and air pollution (PM<sub>10</sub>, PM<sub>2.5</sub> and O<sub>3</sub>) in Santiago, Chile  
*Jeanette Vera, Luis Cifuentes*

Heat health effect prevention: evaluation of the active surveillance program of high risk elderly in Rome. Summer 2008  
*Anna Maria Bargagli, Paola Michelozzi, Claudia Marino, Manuela De Sario, Patrizia Schifano, Giovanna Cappai, Carlo Alberto Perucci*

Proximity to industrial polluting sources and socioeconomic status-An environmental equity study on a small-area scale  
*séverine Deguen, sabrina Havard, Hortence Kamga, Philippe Dorelon, denis Zmirou-Navier*

Traffic-Related Air Pollution and Socioeconomic Status: A Spatial Autocorrelation Study to Assess Environmental Equity on a Small-Area Scale  
*Sabrina Havard, Séverine Deguen, Denis Zmirou-Navier, Charles Schillinger, Denis Bard*

Socio economic class and exposure to NO<sub>2</sub> air pollution in The Netherlands  
*Luc Int Panis, Carolien Beckx, Geert Wets*

## **OS1.5 - Source apportionment**

**Wednesday 26 August 2009, 10:30 - 12:00**

Estimation of heavy metals concentrations in outdoor air using mosses  
*Marcela Rivera, Harald Zechmeister, Mercedes Medina-Ramón, Xavier Basagaña, Laura Bouso, Maria Foraster, Alexandre Deltell, Jaume Targa, Pascual Solanas, Rafael Ramos, David Vizcaya, Nino Kuenzli*

Effect of Saharan dust on the association between particulate matter and daily

mortality in Rome, Italy.

Sandra Mallone, Massimo Stafoggia,  
Annunziata Faustini, Stefano Gobbi,  
Francesco Forastiere, Carlo A Perucci

Saharan dust transport and daily mortality

Stefano Zauli Sajani, Rossella Miglio, Paolo  
Bonasoni, Paolo Cristofanelli, Angela  
Marinoni, Claudio Sartini, Carlo Alberto  
Goldoni, Gianfranco De Girolamo, Paolo  
Lauriola

PM<sub>2.5</sub>-bound organic compounds and  
cardiovascular symptoms in myocardial  
infarction survivors

Ute Küpper, Susanne Breitner, Jürgen  
Schnelle-Kreis, Josef Cyrus, Timo Lanki,  
Regina Ruckerl, Alexandra Schneider, Irene  
Brüske-Hohfeld, Robert Devlin, Erich  
Wichmann, Ralf Zimmermann, Annette  
Peters

Hospital Admissions and Chemical  
Composition of Fine Particulate Matter  
(PM<sub>2.5</sub>) for 106 U.S. Counties

Michelle Bell, Keita Ebisu, Roger Peng,  
Jonathan Samet, Francesca Dominici

## **OS1.6 - Symposium 10 - Environmental health and safety of seafood**

Wednesday 26 August 2009, 10:30 - 12:00

Chair: Hilde Kruse

Algal Toxins in an Environmental Health  
Perspective

ERNESTO FATTORUSSO, PATRIZIA  
CIMINIELLO, CARMELA  
DELL'AVERSANO, MARTINO FORINO

Foodborne viruses and seafood safety in an  
environmental health perspective

Marion Koopmans

Investigation into levels of persistent organic  
pollutants in fishery produce available on the  
Irish market

Rhodri Evans, Christina Tlustos, Iona Pratt,  
Brendan McHugh, Linda Tyrrell, Evin  
McGovern

An Estimate of the Burden of Disease from  
Methylmercury in Various Global Regions

Herman Gibb, Jessie Buckley

## **OS1.7 - Bayesian and simulation approaches**

Wednesday 26 August 2009, 10:30 - 12:00

Effective spatial smoothing of disease: a tool  
for epidemiologists

Linda Beale, Lea Fortunato

Incorporating individual-level uncertainties in exposure into epidemiologic analyses: An application using arsenic in drinking water and bladder cancer

Jaymie Meliker, Pierre Goovaerts, Geoffrey Jacquez, Jerome Nriagu

Pesticides and Autism: Incorporating Temporal Vulnerability as an Unknown Parameter

Eric Roberts, Paul English

The effect of environmental exposure to pesticides on birth-weight

Claire Petit, Marta Blangiardo, Sylvia Richardson, Cécile Chevrier, Sylvaine Cordier

Bayesian spatiotemporal analysis of Ross River virus incidence in relation to variation in socio-ecologic factors in Queensland, Australia

Wenbiao Hu, Archie Clements, Gail Williams, Shilu Tong

## **OS1.8 - Genome environ interaction**

**Wednesday 26 August 2009, 10:30 - 12:00**

Prenatal exposure to polycyclic aromatic hydrocarbons and CpG methylation

Julie Herbstman, Deliang Tang, Deguang Zhu, Frederica Perera

Influence of Prenatal Lead Exposure on Genomic Methylation of Cord Blood DNA

Rick Pilsner, Howard Hu, Adrienne Ettinger, Brisa Sanchez, Robert Wright, David Cantonwine, Alicia Lazarus, Hector Lamadrid-Figueroa, Adriana Mercado-Garcia, Martha Maria Tellez-Rojo, Mauricio Hernandez-Avila

A Panel Study on Epigenetics, Markers of Oxidative Stress, and Lung Function among Children with Respiratory Disease Exposed to Industrial Air Pollution

Annibale Biggeri, Dolores Catelan, Valentina Bollati, Riccardo Pistelli, Franca Rusconi, Fabio Barbone, Pier Alberto Bertazzi, Andrea Baccarelli

Prolonged Exposure to Particulate Air Pollution and Decreased DNA Methylation

Jaime Madrigano, Andrea Baccarelli, Pantel Vokonas, Helen Suh, Valentina Bollati, Joel Schwartz

Effects of Exposure to Metal Rich Air Particles on Histone H3-K4 Dimethylation and H3-K9 Acetylation

Laura Cantone, Valeria Pegoraro, Pietro Apostoli, Matteo Bonzini, Angela Cecilia Pesatori, Letizia Tarantini, Valentina Bollati, Joel Schwartz, Pietro Alberto Bertazzi, Andrea Baccarelli

## **PS1.1 - Climate change poster session - Methodological issues of climate change**

**Wednesday 26 August 2009, 12:00 - 13:00**

Cold counts, but how cold may not

Yasushi Honda, Victoria Likhvar, Kazutoshi Sugimoto, Masaji Ono

Environmental Health Indicators of Climate Change for the United States

Paul English, Amber Sinclair, Zev Ross, Henry Anderson, Vicki Boothe, Christine Davis, Kris Ebi, Betsy Kagey, Kristen Malechi, Rebecca Shultz, Erin Simms

Heat Waves, Impervious Surfaces, and Hospital Admissions Among the Elderly in U.S. Cities

Carina Gronlund, Marie O'Neill, Joel Schwartz, Dan Brown, Shannon Brines

Enhancing Heat Wave Health Warning Systems to Address Within-City Vulnerabilities: A Pilot Study in Wayne County, Michigan

Kai Zhang, Carina Gronlund, Jalonne White-Newsome, Marie O'Neill, Evan Oswald, Richard Rood, Shannon Brines, Daniel Brown, Edith Parker

Modification of temperature-mortality association in summer by the previous winter mortality in South Korea

JONGSIK HA, HO KIM

Sex, age and education as modifiers of heat-mortality association in Shanghai, China

Haidong Kan, Wei Huang, Sari Kovats

Different risks of traumatic and non-traumatic injuries attributable to temperature in Seoul, Korea

YoonHee Kim, Ho Kim, Sang-Do Shin, Yun-Chul Hong

A methodological approach for the definition of the Urban Heat Island in Rome and possible use for the evaluation of the impact of heat waves on mortality.

*Francesca de'Donato, Michela Leone,  
Roberto Fabrizi, Paola Michelozzi, Carlo A  
Perucci*

**PS1.1 - Climate change poster session - Disease and food related to  
climate change**

**Wednesday 26 August 2009, 12:00 - 13:00**

Climate variability and Salmonella infection  
in an Australian temperate climate city  
*Peng Bi, Ying Zhang, Janet Hiller, Scott  
Cameron*

Impacts of weather events on  
gastrointestinal medical visits in Taiwan.  
*Ling-Ya Huang, Fung-Chang Sung, Yu-  
Chun Wang, Trong-Neng Wu, Chung-Ming  
Liu, Chang-Hung Chou*

Projected Changes in Reportable Enteric  
Disease Incidence in New Brunswick,  
Canada in Response to Changes in  
Temperature, Precipitation and Snow Depth  
*James Valcour, Dominique Charron, David  
Waltner-Toews, Olaf Berke, Tom Edge*

Climatic components of seasonal variation in  
cholera incidence  
*Masahiro Hashizume, Yukiko Wagatsuma,  
Abu S.G. Faruque, Taiichi Hayashi, Ben  
Armstrong*

Climate Change and Infectious Disease in  
South Korea  
*Hosung Shin, Dongjin Kim*

Impacts of climate on the incidence of Scrub  
typhus  
*Jong-Hun Kim, Hae-Kwan Cheong*

The association of rainfall and drought  
between geographical distribution and  
infectious diseases in Taiwan  
*Yi Ting Wu, Mu Jean Chen, Huey Jen Su*

A Public Health Viewpoint on Climate  
Change Projections and Agricultural  
Sustainability in California: Heat Waves and  
Dairies as Case-in-Point  
*Helene Margolis, Alexander Gershunov,  
Daniel Cayan*

Climate Change in Mexico: Potential Zones  
of Epidemiological Impact of Dengue  
*Horacio Riojas-Rodriguez, Grea Litai  
Moreno-Banda, Magali Hurtado-Diaz, Oscar  
Meneses, Aldo Castaneda*

Potential impact of global climate change on  
diarrhoeal disease in Mexico

*Magali Hurtado-Díaz, Grea Litai Moreno-Banda, Horacio Riojas-Rodríguez, Oscar Sánchez-Meneses, Aldo Castañeda-Martínez*

The impact of climate change on the future incidence of specified foodborne diseases in Ireland

*Elizabeth Cullen*

## **PS1.1 - Climate change poster session - Health effects of climate change**

**Wednesday 26 August 2009, 12:00 - 13:00**

Socioeconomic status may slightly modify climate effect on mortality from chronic obstructive pulmonary disease in Taiwan.  
*Fung-Chang Sung, Yu-Chun Wang, Ling-Ya Huang, Trong-Neng Wu, Chung-Ming Liu, Chang-Hung Chou*

Temperature and Mortality in Taiwan, a Subtropical Country

*Chung-Yi Li, Tsung-Han Hsieh*

Air temperature and inflammatory and coagulation responses in patients with coronary or pulmonary diseases

*Regina Hampel, Susanne Breitner, Regina Rückerl, Mark Frampton, H.-Erich Wichmann, Annette Peters, Alexandra Schneider*

Impact of the unusual heatwave of 2007 on the mortality in Hungary

*Anna Paldy, Janos Bobvos*

Impact of heat on the urban and rural population in Hungary

*Janos Bobvos, Anna Paldy*

Ambient temperature and mortality: an international study in four capital cities of East Asia

*JooYoun Chung, Ho Kim, Yasushi Honda*

Independent Effects of Air Pollution and Temperature on Myocardial Infarction

*Sanghyuk Bae, Ho Kim, Aekyung Park, Yun-Chul Hong*

Asthma admission associated with meteorological factors in Taiwan.

*Fang-Yu Lin, Ling-Ya Huang, Yu-Chun Wang, Fung-Chang Sung*

ADVERSE EFFECTS OF CLIMATE CHANGE ON POPULATION HEALTH IN ARMENIA

*Amalia Hambartsumyan*

Bioclimatic discomfort conditions and emergency calls  
*Fabiana Scotti, Ester Alessandrini, Stefano Zauli Sajani, Stefano Marchesi, Paolo Lauriola, Rossella Miglio*

The Impact of Noxious and Environmental Factors of Risk on the Health of Population from the Perspective of Climate Change in the Republic of Moldova  
*Bobeica Valentin, Columbina Lidia, Buburuz Dionisie, Brega Vladimir*

Estimate of Burden of Disease Attributable to Climate change in South Korea  
*Hosung Shin, Suehyung Lee*

Effects of the humidity on hospital admissions by respiratory diseases in the subequatorial Amazon  
*Eliane Ignotti, Washington Junger, Sandra Hacon, Karla Longo, Paulo Artaxo, Antônio Ponce de Leon*

Ozone, PM10, and synoptic circulation patterns associated with asthma/myocardial infarction hospital admissions.  
*Karin Yeatts, Adel Hanna, Zhengyuan Zhu, Aijun Xiu, Gurmeet Arora, Qingyu Meng, Joe Pinto, Peter Robison*

A case-crossover study between cold wave and the death of many kinds of disease in Beijing  
*Kun Zhong, Jinliang Zhang*

A case-crossover study on the heat waves and daily death counts  
*Ling Liu, Jinliang Zhang*

## **PS1.1 - Biomarkers - poster session**

**Wednesday 26 August 2009, 12:00 - 13:00**

Database of Laboratories for Measurement of Exposure Biomarkers (MEB-Lab)  
*Susan M. Pinney, Peter J. Embi, Robert A. Witzke, Emily Jones*

Genetic Damage in Pesticide Merchants in Matagalpa, Nicaragua  
*Inti Luna-Aviles, Richard Gminski, Volker Mersch-Sundermann, Jorge Huete-Pérez*

Independent effect of polycyclic aromatic hydrocarbons and ambient temperature on oxidative stress in the elderly.  
*Chung-Won Kang, JIN HEE KIM, Soo-Hun Cho, Yun-Chul Hong*

Ecological and human biomonitoring in Taranto, an Italian contaminated site  
*Ivano Iavarone, Giacomo Castellano, Walter Martinelli, Angela Lerna, Giorgia Suma, Michele Conversano*

MERCURY, LEAD AND CADMIUM IN HUMAN MILK IN RELATION TO DIET, LIFESTYLE AND SOCIO-DEMOGRAPHIC FACTORS IN MADRID, SPAIN

*Esther García-Esquinas, Nuria Aragonés, Mario Antonio Fernández, Beatriz Pérez-Gómez, María José González, Andrés Iriso, Jenaro Astray, Marina Pollán, Mercedes Martínez*

Informativeness of some hematological indices for the evaluation of influence of low-degree atmospheric pollution on health  
*Tanya Turnovska, Todorka Tzvetkova, Georgi Tarnovski*

Individual determinants of serum levels of 1,1-dichloro-2,2-bis(p-chlorophenyl)ethylene (DDE) and polychlorinated biphenyls (PCBs) among French women

*Bachelet Delphine, Charlier Corinne, Kerbrat Pierre, Arveux Patrick, Guihenneuc-Jouyaux Chantal, Guénel Pascal*

ORGANOCHLORINE COMPOUNDS IN THE SERUM OF TWO COHORTS OF PREGNANT SPANISH WOMEN (INMA-GIPUZKOA AND INMA-SABADELL)

*Jesús Ibarluzea, Aitana Lertxundi, Fernando Goñi, Mar Alvarez-Pedrerol, Jordi Sunyer, Mikel Basterrechea*

Use of nontraditional epidemiologic methods to link environmental exposure and disease: an example.

*Dina Schreinemachers*

Placenta as biomarker of environmental pollution

*Rakhmanbek Toichuev, Janyl Madykova*

Correlations of Urinary and Amniotic Fluid Phthalate Metabolite Concentrations and Expression of Imprinted Genes in Human Placenta

*Stephanie Engel, Mary Wolff, Antonia Calafat, Andreas Diplas, Manori Silva, Luca Lambertini, Rebecca Bausell, Molly Meadows, Menjean Lee, Rhoda Sperling, James Wetmur, Jia Chen*

Soluble adhesion molecules in serum of healthy adults - effects of wood smoke exposure as well as variability within and

between individuals

Leo Stockfelt, Lena Andersson, Gerd Sällsten, Lars Barregård

## **PS1.1 - Manufactured chemicals and waste management poster session - Manufactured chemicals**

**Wednesday 26 August 2009, 12:00 - 13:00**

Acute response to exposure to Sarin in veterans tested at Porton Down

Thomas Keegan, Claire Brooks, Toby Langdon, Sue Walker, Lucy Carpenter, Katherine Venables

Pests and Pesticides in the City: Washington DC Survey

David F Goldsmith, Pamela Davidson, Jerome Paulson

The relationship between the length of using pacifier and feeding bottle and the prevalence of respiratory and allergic illnesses during childhood

Nai Yun Hsu, Huey Jen Su, Pei Chih Wu

Can Living in the Surroundings of a Petrochemical Complex be a Risk Factor for Autoimmune Thyroid Disease?

Clarice Umbelino de Freitas, Rosaria Grimaldi Campos, Mirta Rodrigues Silva, Maria Rosana Isberner Panachão, Jose Cassio de Moraes, William Waissmann, Antonio Roberto Chacra, Marina Maeda, Regina Minazzi Rodrigues, James Gonçalves Belchor, Sonia Oliveira Barbosa, Raimunda Telma M Santos

Prevalence of liver diseases in the Estuary of Santos, Brazil.

Daniele Carvalho, Mariana Guimarães, Nilva Campina, Mônica Lobarinhas, Ana Lopes, Michele Cunha, Ivy Souza, Vera Oliveira, Lucas Braga, Lourdes Martins, Adriana Gomes, Luiz Pereira, Alfésio Braga

Prevalence of blood diseases in the Estuary of Santos, Brazil.

Tatyana Ribeiro, Mariana Guimarães, Daniele Carvalho, Nilva Campina, Mônica Lobarinhas, Ana Lopes, Michele Cunha, Vivianni Wanderley, Andréa Invenção, Tomas Braga, Lourdes Martins, Adriana Gomes, Luiz Pereira, Alfésio Braga

Lipid peroxidation and oxidative status in metal foundry workers

Hsiu-Ling Chen, Chia-I Chan

Relationships between Brominated Flame Retardant Concentrations in House Dust and Serum Hormone Levels in Men

*Paula I. Johnson, Heather M. Stapleton, Russ Hauser, John D. Meeker*

Exposure to bisphenol A and phthalates affects lung function and oxidative stress in the elderly

*Jin Hee Kim, Sanghyuk Bae, Kiyoun Lee, Jong-Ryeul Sohn, Yun-Chul Hong*

Evaluation of safety of nanoparticles and water with modified structure in cytogenetic studies

*Nikolay Moshkov, Faina Ingel, Ludmila Ahaltseva, Georgy Krivtsov, Galina Yakovleva, Anatoly Stekhin*

Concentrations of urinary phthalate metabolites in Mexican women with and without diabetes

*Raúl U. Hernández-Ramírez, Marcia Galván-Portillo, Antonia M. Calafat, Mariano E. Cebrián-García, Luisa Torres-Sanchez, Larry L. Needham, Lizbeth López-Carrillo*

Serum levels of p,p'-DDE and reproductive hormone profile in male greenhouse workers of Morelos, Mexico.

*Julia Blanco-Muñoz, Marina Lacasaña, Clemente Aguilar-Garduño, Mariano E. Cebrián-García, Susana Bassol, Magally Mayanin Morales, Rosa María García-Hernández, Cecilia Hernández*

Occupation solvents exposure and cognitive decline in older adults

*Emile Jorgensen, Jennifer Weuve, Denis Evans, Martha Clare Morris, Todd Beck, Leslie Stayner, Serap Erdal*

German residents exposed to PFOA-contaminated drinking water: one year follow up

*Michael Wilhelm, Thomas Göen, Jürgen Angerer, Knut Rauchfuss, Martin Kraft, Peter Kleeschulte, Jürgen Hölzer*

Exposure to volatile organic compounds and kidney dysfunction in one thin-film transistor-liquid crystal display (TFT-LCD) company

*Ta-Yuan Chang, Guei-Hong Huang*

Outdoor volatile organic compounds exposure and irritant health effects near a plastic recycling factory

*Toshihide Tsuda, Takashi Yorifuji*

Prenatal phenol exposure and expression of

imprinted genes in human placenta  
*Cheryl Stein, Jia Chen, Andreas Diplas,  
Luca Lambertini, Antonia Calafat, Xiaoyun  
Ye, Susan Teitelbaum, James Wetmur,  
Mary Wolff, Rhoda Sperling, Menjean Lee,  
Stephanie Engel*

## **PS1.1 - Manufactured chemicals and waste management poster session - Waste and waste management**

**Wednesday 26 August 2009, 12:00 - 13:00**

AN INTERVENTION FOR DIMINISHING  
THE RISK OF HEALTH DAMAGE BY  
CONTAMINANTS PRODUCED THROUGH  
INCINERATION OF UNCLASSIFIED BHW  
IN A UNIVERSITY HOSPITAL

*Martha E. Loya, Luz H. Sanin, Dora Chavez,  
Rosa Ma. Guevara, Ana L Pèrez, Pilar  
Hernandez*

Radio-ecological situation in industrial waste  
dumps of the Kyrgyz Chemical and  
Metallurgical Plant

*Almaz Sultashev*

ODOUR ANNOYANCE NEAR WASTE  
TREATMENT CENTRES: A POPULATION-  
BASED STUDY IN FINLAND

*Marjaleena Aatamila, Pia K Verkasalo,  
Maarit J Korhonen, Marja K Viluksela, Kari  
Pasanen, Pekka Tiittanen, Aino Nevalainen*

Study of cancer incidence in an area  
interested by dumping waste sites in  
Campania (Italy)

*Lucia Fazzo, Marco De Santis, Francesco  
Mitis, Marta Benedetti, Marco Martuzzi,  
Pietro Comba, Mario Fusco*

## **PS1.1 - Indoor air pollution poster session - General**

**Wednesday 26 August 2009, 12:00 - 13:00**

The Traditional Open Fire versus the Gyapa  
Stove: a Comparison of Emissions in Rural  
Ghanaian Households.

*Eleanne Van Vliet, Darby Jack, Steven  
Chillrud, Atsu Titiati, Seth Agbeve, Patrick  
Kinney*

The correlation between indoor and outdoor  
bioaerosol at homes of different height

*Chien Cheng Jung, Nai Yun Hsu, Yi Cheng  
Lee, Huey Jen Su*

Particulate matter and malaria: A case-  
control study

*Shelby Yamamoto, Ali Sié, Rainer*

*Sauerborn*

Time trends in indoor radon concentrations in Sweden

*Martin Tondel, Eva M Andersson, Lars Barregard*

Exposure to Volatile Organic Compounds and Loss of Pulmonary Function in the Elderly

*Ho-Il Yoon, Yun-Chul Hong, Soo-Hun Cho, Ho Kim, Yoon Hee Kim, Jong Ryeul Sohn, Mikyung Kwon, Seok-Hwan Park, Myoung-Hee Cho, Hae-Kwan Cheong*

### **PS1.1 - Indoor air pollution poster session - Indoor air in work environments**

**Wednesday 26 August 2009, 12:00 - 13:00**

Indoor air quality and employees' health information in two intensive care units.

*Alfésio Braga, Marília Jukemura-Miyagusko, Ana Lichtensfeld, Luiz Pereira, Lourdes Martins*

Fungi on Air-Conditioning Cooling Coils and Drainage Pans, Identified with Polymerase Chain Reaction Assays

*Mark Mendell*

Association between occupational environment, behavioral factors, and total cardiovascular risk

*Jana Jurkovicova, Zuzana Stefanikova, Ludmila Sevcikova, Lubica Sobotova, Lubica Aghova*

Health Effects of Indoor Environmental Quality on Healthcare Workers in a General Hospital in Taiwan

*Chung-Jau Huang, Po-Yuan Chen, Chih-Hung Ku*

Fine particulate matter measurements in Swiss hospitality venues: What is the effect of spatial separation between smoking and non-smoking areas?

*Martin Rössli, Anke Huss, Dimitri Hauri, Peter Böhler, Thomas Zünd, Silja Wenk, Cornelis Kooijman*

### **Lunch**

**Wednesday 26 August 2009, 12:00 - 14:00**

### **PS1.2 - Food policy and lifestyle poster session - Lifestyle**

**Wednesday 26 August 2009, 13:00 - 14:00**

Associations between urban sprawl and body mass index in a sample of older women in the United States

*Peter James, Philip J. Troped, Corinne E. Joshu, Ross C. Brownson, Reid Ewing, Francine Laden*

Is transition from nomadic to sedentary lifestyle an important social determinant of child health?

*Natalya Bilenko, Lewis Reisman, Ilana Belmaker*

Husbands' drinking behavior as a risk factor of wives' health-related quality of life during the postpartum period

*Pei-Jen Chang, Li-Yao Wu, Yi Chun Chen, Chao-Hua Chuang, Wu-Shiun Hsieh, Shio-Jean Lin, Pau-Chung Chen*

SMOKING DURING PREGNANCY IS ASSOCIATED WITH HIGHER DIETARY INTAKE OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS)

*Talita Duarte-Salles, Michelle Mendez, Mònica Guxens, Inma Aguilera, Manolis Kogevinas, Jordi Sunyer*

Association between tobacco smoke and nutritional behavior

*Zuzana Stefanikova, Jana Jurkovicova, Ludmila Sevcikova, Lubica Sobotova, Lubica Aghova*

Estimation of the number of deaths attributable to alcohol: methodological issues and illustration with 2006 French data

*Grégoire Rey, Mathieu Boniol, Eric Jouglu*

Effects of the mixology course on dental caries and blood lead level for culinary students

*Wei-Hsiang Chang, Ya-Hui Yang, Saou-Hsing Liou, Ching-Wen Liu, Chiu-Ying Chen, Lih-Jyh Fuh, Shih-Li Huang, Chun-Yuh Yang, Trong-Neng Wu*

## **PS1.2 - Food policy and lifestyle poster session - Policy**

**Wednesday 26 August 2009, 13:00 - 14:00**

Food Security and Emerging Infectious Diseases: the unsustainable case of the Andes-Amazon region, due to large scale crop production and global trade policies.  
*Manuel Cesario, Raquel Cesario, Monica Andrade-Morraye*

Global Climate and Environmental Change: Adaptation strategies for food and water

Maria Cristina Tirado-von der Pahlen

Impacts of global climate change on plant  
food allergens and related health issues

Paul Beggs, Nicole Walczyk

Communicating with Americans about Food  
Recalls: Recommended Strategies

William Hallman, Cara Cuite, Neal Hooker

Estimating the Global Burden of Disease  
from Foodborne Chemicals

Herman Gibb

## **PS1.2 - Birth and reproductive outcomes poster session**

**Wednesday 26 August 2009, 13:00 - 14:00**

Sex Ratio and Organochlorine Pesticides:  
Time Series of 55 Years in an Exposed  
Population in Rio de Janeiro/Brazil.

Raphael Guimarães, Armando Meyer,  
Claudia Coeli, Carmen Asmus

Effects on Reproductive System of Mice  
Exposed to Environmental Contamination

Paulo Pereira, Chin Lin

Measurement and Determinants of  
Anogenital Distance in Healthy, Newborn  
Infants

Sheela Sathyanarayana, Lauren Beard,  
Rich Grady

Cumulative Bone Lead Exposure, Length of  
Gestation, and Risk of Prematurity

David Cantonwine, Howard Hu, Brisa  
Sanchez, Adrienne Ettinger, Adriana  
Mercado-García, Mauricio Hernández-Avila,  
Martha María Téllez-Rojo, Hector Lamadrid-  
Figueroa

Effect of *in utero* exposure to manganese on  
the birth outcome

Soo Eun Chung, Hae-Kwan Cheong, Eun-  
Hee Ha, Boong-Nyun Kim, Mina Ha, Yangho  
Kim, Yun Chul Hong, Hyesook Park, Nam-  
Soo Chang, Se-Young Oh

Prenatal personal VOCs and outdoor NO<sub>2</sub>  
exposure effects on birth outcome and  
infant's atopic dermatitis at 6 month: MOther  
and Children's Environmental  
Health(MOCEH)

Moon-hee Chang, Eun-Hee Ha, Hyesook  
Park, Mina Ha, Young Ju Kim, Yun -Chul  
Hong, Yangho Kim, Namsoo Chang, Young-  
Man Roh, Boong-nyun Kim, Se-young Oh,  
Bo-Eun Lee, Ju-Hee Seo, Byung-Mi Kim

The effect of prenatal lead exposure on child's Body Mass Index (BMI) from birth to 5 years of age.

Myriam Afeiche, Howard Hu, Brisa N. Sánchez, Héctor Lamadrid-Figueroa, Adriana Mercado-García, David Cantonwine, Karen E. Peterson, Adrienne S. Ettinger, Robert O. Wright, Mauricio Hernández-Avila, Martha Maria Téllez-Rojo

ANOGENITAL DISTANCE IN CHILDREN WITH GENITOURINARY DISORDERS: A PILOT STUDY

Sheela Sathyanarayana, Erica Schetter, Amanda Jenkins, Richard Grady

Association between consume of nitrate-contaminated water and time to pregnancy (TTP) among fertile women

Esperanza Yazmín Calleros-Rincón, Luz Helena Sanín, Jose Antonio Cueto-Wong, María Teresa Alarcon-Herrera

Case-control study of behavioral and environmental factors associated to congenital malformations in Cali, Colombia

Fabián Méndez, Harry Pachajoa, Yoseth Ariza, Milton Suarez, Cecilia Aguilar, Carolina Isaza

Lifestyle, physical burden and anxiety in pregnant women and recurrent pregnancy loss

Fumihito Sata, Hideto Yamada, Hiroyuki Nakao, Hisanori Minakami, Reiko Kishi, Hirohisa Imai

Preterm Birth and Bisphenol A Concentrations in Mexico City: a Pilot Study  
GZ Fortenberry, JD Meeker, H Hu, A Calafat, BN Sánchez, DE Cantonwine, H LaMadrid-Figueroa, M Hernandez-Avila, MM Tellez-Rojo

Effects of household use of cleaning products on birth weigh

Lidia Casas, Jan Paul Zock, Mar Álvarez-Pedrerol, Mònica Guxens, Jordi Sunyer

Air pollution and low birth weight in an industrialized city in Southeastern of Brazil, 2003-2006

Marcelo Moreno Reis, Luiz Alberto Amador Pereira, Alfésio Luís Ferreira Braga

Ambient air pollution exposure, residential mobility and term birth weight in Oslo, Norway.

Christian Madsen, Ulrike Gehring, Sam Erik Walker, Bert Brunekreef, Hein Stigum,

*Øyvind Næss, Per Nafstad*

Occupational Exposures and Pregnancy Outcomes among Nurses: A Systematic Review and Meta-analysis

*Reginald Quansah, Jouni Jaakkola*

Use of biocides and insect repellent and risk of hypospadias

*Julien Dugas, Mark Nieuwenhuijsen, David Martinez, Nina Iszatt, Paul Nelson, Paul Elliott*

A spatial case-control study of birth defects and exposure to spraying *Bacillus thuringiensis var. kurstaki* (Btk) for painted apple moth *Teia anartoides*, Walker in New Zealand

*Barry Borman, Paul White, Ian Gear*

The effect of ambient air pollution on sperm quality

*Craig Hansen, Tom Luben, Jason Sacks, Andrew Olshan, Susan Jeffay, Lillian Strader, Sally Darney Perreault*

LOW-LEVEL NITROGEN DIOXIDE EXPOSURE AND LOW BIRTH WEIGHT RISK IN KAUNAS CITY

*Audrius Dedele, Regina Grazuleviciene, Tomas Grazulevicius*

## **PS1.2 - Outdoor air pollution - different types of exposures poster session**

**Wednesday 26 August 2009, 13:00 - 14:00**

Schoolchildren panel study of air pollution from biomass burning in Amazon: results by gender and age.

*Ludmilla Viana Jacobson, Sandra Hacon, Eliane Ignotti, Hermano Castro, Paulo Artaxo, Antonio Ponce de Leon*

Indoor air pollution concentrations assessed during the baseline year of an improved cookstove intervention in a rural Nicaraguan community

*Maggie L Clark, Heather Bazemore, Stephen J Reynolds, Judy M Heiderscheidt, Allison Shaw, Stuart Conway, John Volckens, Jennifer L Peel*

Health endpoints assessed during the baseline year of an improved cookstove intervention among Nicaraguan women  
*Maggie L Clark, Stephen J Reynolds, Judy M Heiderscheidt, Allison Shaw, Stuart Conway, John Volckens, Jennifer L Peel*

Effect of personal exposure to indoor air

pollution from solid fuel on lung symptoms and function in women: an exposure-response analysis from the Guatemala Woodstove Randomised Control Trial  
Daniel Pope, Esperanza Diaz, Tone Smith-Sivertsen, Rolv Lie, John McCracken, Byron Arana, Kirk Smith, Nigel Bruce

Initial enrollment of asthmatic children in a woodstove intervention study  
Curtis Noonan, Tony Ward, Emily Weiler

Air pollution due to wood burning for heating: a health impact assessment  
Hanns Moshhammer, August Kaiser, Claudia Flandorfer, Daniela Haluza, Manfred Neuberger

ACUTE PLATELET RESPONSES TO AMBIENT PARTICULATE MATTER  
Eric Lauer, Howard Kipen, Sampada Gandhi, Pamela Ohman-Strickland, Claire Philipp, David Rich

Association between Particulate Air Pollution and Systemic Inflammation in Persons with Ischemic Heart Disease  
Taina Siponen, Iiris Salonen, Minna Aurela, Hilkka Dufva, Juhani Dufva, Risto Hillamo, Maija-Riitta Hirvonen, Kati Huttunen, Eeva Linkola, Arto Pennanen, Juha Pekkanen, Annette Peters, Raimo O Salonen, Alexandra Schneider, Tarja Yli-Tuomi, Timo Lanki

Consumption of green vegetables, GSTM1 genotype and the association of air pollution with inflammatory responses  
Annette Peters, Regina Hampel, Susanne Breitner, Fredrik Nyberg, Juha Pekkanen, Francesco Forastiere, Jordi Sunyer, Klea Katsouyanni, Thomas Illig, Wolfgang Koenig, Regina Rueckerl, Alexandra Schneider

Long- and short-term air pollution exposure and markers of inflammation and coagulation in a population sample from Stockholm  
Sviatlana Panasevich, Karin Leander, Mats Rosenlund, Petter Ljungman, Tom Bellander, Ulf de Faire, Göran Pershagen, Fredrik Nyberg

Inflammation, pulse pressure and residential traffic exposure: A cross-sectional analysis of older adults in greater Boston, Massachusetts  
Christine Rioux, Doug Brugge, Mkaya

*Mwamburi, David Gute, Steven Cohen*

Traffic-related pollutants and inflammatory markers in an elderly cohort: Veterans Administration Normative Aging Study  
*Marie-Abele Bind, Antonella Zanobetti, Joel Schwartz, Helen Suh, Pantel Vokonas*

Biomarkers of inflammation and short-term fine particulate exposures  
*Jaime Hart, Francine Laden, Eric Garshick*

On the Sources of Ambient Respirable Particles Laden with Trace Metals: An Investigation of Extensive Sources of Aerosol with High Fractions of Transition Metals in New York City  
*Richard Peltier, Morton Lippmann*

Association of fine and coarse particles with mortality in Canary Island cities affected by Saharan dust intrusion  
*Elena Lopez-Villarrubia, Carmen Iñiguez, Ferran Ballester, Nieves Peral, Dolores García*

Coarse and fine particles and daily mortality in nine French cities  
*Christophe Declercq, Sophie Larrieu, Véréne Wagner, Sabine Host, Laurence Pascal, Edouard Chatignoux, Myriam Blanchard, Agnès Lefranc*

Asian Dust Storms and Pulmonary Function of School Children  
*Yun-Chul Hong, Xiao-Chuan Pan, Su-Young Kim, Kwangsik Park, Eun-Jung Park, Xiaobin Jin, Seung-Muk Yi, Kye-Seon Kim, Yoon-Hee Kim, Choong-Hee Park, Sanghwan Song, Ho Kim*

Does the presence of desert dust modify the effect of PM<sub>10</sub> on mortality in Athens, Greece?  
*Evangelia Samoli, Eva Kougea, Panos Kassomenos, Antonis Analitis, Klea Katsouyanni*

Effects of SO<sub>2</sub> on the respiratory systems of child Miyakejima residents nearly 2 years after returning to the island  
*Satoko Iwasawa, Takehiro Michikawa, Makiko Nakano, Yuji Nishiwaki, Tazuru Tsuboi, Shigeru Tanaka, Takamoto Uemura, Ai Milojevic, Hiroshi Nakashima, Toru Takebayashi, Akihiro Morikawa, Kouichi Maruyama, Shoji Kudo, Iwao Uchiyama, Kazuyuki Omae*

Effect of Long-Range Transport on Urban

PM10 Levels

László Makra, István Matyasovszky, Szintia Tombácz, Kostas Karatzas, Pia Anttila

## PS1.2 - Indoor air pollution poster session

Wednesday 26 August 2009, 13:00 - 14:00

Residential Indoor Air Exposure to Polychlorinated Biphenyls

Edward Fitzgerald, Erin Belanger, Patrick Palmer, Lloyd Wilson, Raj Narang, Syni-an Hwang

DDT contamination in the domestic environment of malaria controlled dwellings  
Jacobus van Dyk, Irene Barnhoorn, Henk Bouwman, Riana Bornman

Relation of dampness to sick building syndrome in Japanese public apartment houses

Yasuaki Saijo, Yoshihiko Nakagi, Toshihiro Ito, Yoshihiko Sugioka, Hitoshi Endo, Takahiko Yoshida

Estimating the prevalence of carbon monoxide exposure in Emergency Department attendees

Catherine Keshishian, Simon Clarke, Ruth Ruggles, Virginia Murray, Patricia Ward, Stephen Bush

Dynamics and risks of DDT applied indoors for malaria control

Riana Bornman, Henk Bouwman, Cobus van Dyk, Irene Barnhoorn, Etienne van der Walt, Anette Venter, Henrik Kylin

Indoor air formaldehyde pollution and allergic rhinitis in adults

Weiwei YU, Zhimin Xing, Xiaochuan Pan, Shilu Tong

The effect of maternal residential factors of indoor PM exposure on pregnancy outcome: MOthers and Children's Environmental Health (MOCEH)

Eun-Hee Ha, Ju-Hee Seo, HyeSook Park, Yun-Chul Hong, Mina Ha, Yangho Kim, Young-Man Roh, Young-Ju Kim, Namsoo Chang, Boong-Nnyun Kim, Se-young Oh, Bo-Eun Lee, Byung-Mi Kim, Moon-Hee Chang

Association between cotinine and metals in maternal and cord blood in nonsmoking mothers

Ting-Wen Wen, Pau-Chung Chen

Secondhand smoke and physical and mental health of non-smoking mothers  
*Lubica Sobotova, Ying-Hua Liu, Alexis Burakoff, Ludmila Sevcikova, Jana Jurkovicova, Zuzana Stefanikova, Michael Weitzman*

## **PS1.2 - Gene and genome interactions poster session**

**Wednesday 26 August 2009, 13:00 - 14:00**

Lead exposure, iron metabolism polymorphisms, and psychiatric symptoms in the Normative Aging Study.

*Kelly Bakulski, Sung Kyun Park, Bhramar Mukherjee, Robert O. Wright, Marc G. Weisskopf, David Sparrow, Avron Spiro III, Huiling Nie, Howard Hu*

Atherosclerosis-related Genes, Low-Level Lead Exposure and Age-Related Hearing Loss: the Normative Aging Study

*Sung Kyun Park, Joel Schwartz, Robert Wright, Avron Spiro III, Pantel Vokonas, Howard Hu*

Traffic-Related Pollution, Oxidative Stress Gene Polymorphisms, and Heart Rate Corrected QT Interval in the Normative Aging Study (NAS): Gene Environment Interactions

*Emmanuel S. Baja, Joel D. Schwartz, Antonella Zanobetti, Pantel S. Vokonas, Helen H. Suh*

Professional exposure to organophosphorus insecticides, paraoxonase (PON1) polymorphisms, and Parkinson's disease (PD) among French agricultural workers

*Frédéric Moisan, Julien Chapuis, Jean-Charles Lambert, Philippe Amouyel, Christophe Tzourio, Alexis Elbaz*

Pooled analyses of polychlorinated biphenyls (PCBs) exposure and CYP1A1 genetic polymorphisms on breast cancer risk

*Lara Sucheston, Ji-Yeob Choi, Francine Laden, Robert Mililkan, Gary Zirpoli, Matthew Grasela, Marilie Gammon, Susan Teitelbaum, Mary Wolff, Tongzheng Zhang, Kirsten Moysich*

Interaction between organophosphate exposure and serum PON1 activity on hypophysary and male sexual hormones in Mexican greenhouse workers

*Marina Lacasaña, Clemente Aguilar-Garduño, Julia Blanco-Muñoz, Miguel Rodríguez Barranco, Beatriz Gonzalez-*

*Alzaga, Susana Bassol, Mariano E Cebrian, Ricardo Gamboa, Oscar Perez-Mendez*

Interaction between organophosphate exposure and serum PON1 activity on thyroid hormones in Mexican greenhouse workers

*Marina Lacasaña, Miguel Rodríguez-Barranco, Clemente Aguilar-Garduño, Julia Blanco-Muñoz, Inmaculada López-Flores, Oscar A Pérez-Méndez, Ricardo Gamboa-Ávila, Susana Bassol, Mariano E Cebrian*

Effect Modification of Levels of Heavy Metals by Hemochromatosis Genotype Among Mother-Infant Pairs: The Tar Creek Birth Cohort

*Angeliki Lambrou, Adrienne S. Ettinger, Marianne R. Hopkins, Chitra J. Amarasiriwardena, Joel Schwartz, Howard Hu, David Bellinger, Robert O. Wright*

$\alpha$ -Synuclein Repeat Polymorphisms and Pesticide Exposure in Parkinson's Disease

*Nicole Gatto, Myles Cockburn, Jeff Bronstein, Matt Farrer, Beate Ritz*

The H63D mutation in the hemochromatosis (HFE) gene modifies the impact of bone lead (Pb) burden on pulse pressure (PP): The VA Normative Aging Study (NAS).

*Aimin Zhang, Sung Kyun Park, Robert Wright, Bhramar Mukherjee, David Sparrow, Pantel Vokonas, Huiling Nie, Howard Hu*

Lack of association between GSTM1, GSTT1, GSTP1 and GSTA1 polymorphisms and occurrence and severity of coronary artery disease in Taiwan

*Chih-Ching Yeh, Fung-Chang Sung, Li-Tang Kuo*

Maternal smoking, GSTT1 and GSTM1 polymorphisms and infant birth-weight reduction in a Kaunas cohort study

*Regina Grazuleviciene, Asta Danileviciute*

OGG1 Genetic Polymorphism is Associated with Mitochondrial DNA Damage in Pesticide-Exposed Fruit Growers

*Ruey-Hong Wong, Pei-Lin Huang, Yu-Hsuan Yeh, Yu-Ching Chen, Yi-Jie Liu, Jiun-Shiung Lai*

Hemochromatosis Gene Variants Modify Effect of Arsenic on Impaired Glucose Tolerance during Pregnancy

*Adrienne Ettinger, Angeliki Lambrou, Marianne Hopkins, Chitra Amarasiriwardena, Joel Schwartz, Howard*

*Hu, David Bellinger, Robert Wright*

The Impact of Maternal MTHFR677  
Genotype and Lead Exposure on Infant  
Genomic DNA Methylation

*Rick Pilsner, Howard Hu, Robert Wright,  
Brisa Sanchez, David Cantonwine, Alicia  
Lazarus, Adrienne Ettinger, Hector  
Lamadrid-Figueroa, Adriana Mercado-  
Garcia, Martha Maria Tellez-Rojo, Mauricio  
Hernandez-Avila*

Telomere Length and Particulate Matter  
Exposure in Steel Workers

*Laura Dionj, Mirjam Barbullushi Hoxha,  
Pietro Apostoli, Letizia Tarantini, Giovanna  
Rizzo, Benedetta Albetti, Matteo Bonzini,  
Valeria Pegoraro, Alice Savarese, Lifang  
Hou, Joel Schwartz, Pier Alberto Bertazzi*

DNA Methylation Impacts on Cognitive  
Decline in a Cohort of Elderly Men

*Angeliki Lambrou, Andrea Baccarelli, Marc  
Weisskopf, Robert O. Wright, Avron Spiro III,  
Pantel Vokonas, Vallentina Bollati, Letizia  
Tarantini, Joel Schwartz*

Effects of exposure to metal-rich air particles  
on mir-222 and mir-21 in occupationally  
exposed subjects.

*Andrea Baccarelli, Valentina Bollati, Barbara  
Marinelli, Pietro Apostoli, Matteo Bonzini,  
Valeria Pegoraro, Joel Schwartz, Pier  
Alberto Bertazzi*

MicroRNA-related SNPs modify the  
association between black carbon exposure  
and blood pressure in the Normative Aging  
Study.

*Elissa Wilker, Andrea Baccarelli, Helen Suh,  
Pantel Vokonas, Robert Wright, Joel  
Schwartz*

Identification of Early Disease Biomarkers in  
45 Months PCB-exposed Slovak Population

*Sisir Dutta, Somiranjan Ghosh, Shizhu  
Zang, Tomas Trnovec, Lubica Palkovicova,  
Eva Sovcikova, Dean Sonneborn, Irva  
Hertz-Piccotto, Svetlana Ghimbovschi, Eric  
Hoffman*

PCB Exposure In vitro (PBMC): Differential  
Gene Expression, Pathway Analysis for  
Possible Mode(s) of Actions, and Disease  
Development in Comparison with PCB-  
exposed Slovak Population

*Somiranjan Ghosh, Sisir Dutta, Shizhu  
Zang, Tomas Trnovec, Lubica Palkovicova,  
Eva Sovcikova, Svetlana Ghimbovschi, Eric*

*Hoffman*

Effects of exposure to metal-rich air particles on DNA methylation

*Letizia Tarantini, Lifang Hou, Matteo Bonzini, Pietro Apostoli, Valeria Pegoraro, Joel Schwartz, Pier Alberto Bertazzi, Andrea Baccarelli*

## **OS2.1 - Impact of climate and temperature on health - climate change oral session 1**

**Wednesday 26 August 2009, 14:00 - 15:30**

Association of temperature at residence vs central site temperature with mortality in Eastern Massachusetts - A case crossover analysis

*Stephanie von Klot, Christopher Paciorek, Steve Melly, Brent Coull, Jan Dutton, Joel Schwartz*

Effects of Cold Weather on Hospital admissions: Results from 12 European Cities within the PHEWE Project

*Claudia Marino, Francesca de'Donato, Paola Michelozzi, Daniela D'Ippoliti, Klea Katsouyanni, Antonis Analitis, Annibale Biggeri, Michela Baccini, Gabriele Accetta, Carlo A Perucci, The PHEWE Collaborative Group*

The association between the daily minimum temperature in summer seasons and the hospital emergency room visits for cardiocerebrovascular diseases - A case-crossover study

*quoxing li, yuming guo, jiajia wang, xiaochuan pan*

Meteorological variables and malaria in a Chinese temperate city- A twenty-year time-series data analysis

*Ying Zhang, Peng Bi, Janet Hiller*

What measure of temperature is the best predictor of mortality?

*Adrian Barnett, Shilu Tong, Archie Clements*

## **OS2.2 - Chemical exposures and child cognition and behaviour - children's health oral session 1**

**Wednesday 26 August 2009, 14:00 - 15:30**

The Study on the Effects of Traffic Exhausts on Children's Behavioral Problems

*Jinliang Zhang, Parasat, Yan Zeng, Qian Zhao*

Exposure to polyfluoroalkyl chemicals and attention deficit hyperactivity disorder in U.S. children aged 12-15 years.

Kate Hoffman, Veronica Vieira, Thomas Webster, Roberta White

Prenatal pesticide exposure as predictor of neurobehavioural deficits and increased blood pressure at school age: Part of a silent pandemic?

Raul Harari, Jordi Julvez, David Bellinger, Dana Barr, Frodi Debes, Philippe Grandjean

Prenatal Bisphenol A Exposure and Behavioral Problems in Two Year Old Children

Joe Braun, Kim Dietrich, Kim Yolton, Richard Hornung, Bruce Lanphear, Antonia Calafat

Prenatal Exposure to Low Molecular Weight Phthalates and Childhood Behavior and Executive Functioning

Stephanie Engel, Amir Miodovnik, Richard Canfield, Chenbo Zhu, Antonia Calafat, Manori Silva, Mary Wolff

## **OS2.3 - Environmental equity and ethnicity - oral session 2**

**Wednesday 26 August 2009, 14:00 - 15:30**

Correlations among Psychosocial and Indoor Physical Environmental Exposures in an Urban Pregnancy Cohort: Project ACCESS

Junenette L. Peters, Jonathan I. Levy, Shakira Franco Suglia, Megan Sandel, Diane R. Gold, Michelle Sternthal, Rosalind J. Wright

Air Pollution and Mortality for Black and White Adults in the United States: Results from the U.S. National Health Interview Survey

Jennifer Parker, Nataliya Kravets, Tracey Woodruff, Keeve Nachman

The Social Epidemiology of Bisphenol A Exposure

Jessica W. Nelson, Thomas F. Webster

Health Vulnerability of Aboriginal Community in Canada and Possible Sustainable Solutions

Atanu Sarkar

Community Health Assessment Pilot Study in La Pita, Nicaragua

Kristopher Coontz, Tomas Tamulis, Russell

*Barlow, Mimi Sroat*

## **OS2.4 - Biomass - oral session**

**Wednesday 26 August 2009, 14:00 - 15:30**

Extent of Biomass Exposures and Health Effects Among Rural Women in Bangladesh  
*Faruque Parvez, Regina Santella, Steven Chillrud, Yu Chen, Alauddin Ahmed, Khaled Hasan, Patrick Kinney, Habibul Ahsan*

Effects of air pollution from biomass burning in Amazon: a panel study of schoolchildren.  
*Ludmilla Viana Jacobson, Sandra Hacon, Eliane Ignotti, Hermano Castro, Paulo Artaxo, Antonio Ponce de Leon*

In-home coal and wood use and lung cancer risk: a pooled-analysis of 10,840 subjects from North America, Europe and Asia  
*H Dean Hosgood, Paolo Boffetta, Zuo-Feng Zhang, Sander Greenland, John McLaughlin, Adeline Seow, Rayjean Hung, Paul Brennan, Qing Lan*

Reducing air pollution exposure from biomass fuel has more impact on severe than non-severe child pneumonia: findings from the RESPIRE (Guatemala) RCT  
*Nigel Bruce, Mukesh Dherani, Martin Weber, Anaite Diaz, Byron Arana, Lisa Thompson, Kirk Smith, John McCracken*

Kerosene and biomass fuels may be risk factors for pulmonary tuberculosis in developing countries.  
*Amod Pokhrel, Michael Bates, Sharat Verma, Hari Joshi, Chandrashekhar Sreeramareddy, Kirk Smith*

## **OS2.5 - Symposium 38 - Food Production, Population Dietary Patterns and Global Climate Change**

**Wednesday 26 August 2009, 14:00 - 15:30**

Alignment of Personal and Planetary Health: Beyond Greenhouse Gases Alone  
*Gidon Eshel, Pamela Martin*

Potential contributions of food consumption patterns to climate change  
*Annika Carlsson-Kanyama, Alejandro Gonzales*

Diet and Climate Change: Does It Matter?  
*Sam Soret, Joan Sabate*

## **OS2.6 - Symposium 33 - Philosophy and Epidemiology**

**Wednesday 26 August 2009, 14:00 - 15:30**

Philosophy and Epidemiology – Current Trends

Jutta Lindert

Use of epidemiologic methods to assess effects of climate change on health: methodological and philosophical challenges

Jouni J.K. Jaakkola

Unveiling the philosophical basis of epidemiology

Raj Bhopal

## **OS2.7 - Birth and reproductive outcomes**

**Wednesday 26 August 2009, 14:00 - 15:30**

Association between low birthweight and air pollution in an industrial Brazilian city.

Luiz Pereira, Alfesio Braga, Tsutomu Morimoto, Lucas Braga, Paulo Afonso Andre, Paulo Saldiva

THE IMPACT OF OUTDOOR NO<sub>2</sub> EXPOSURE ON FETAL GROWTH ASSESSED BY ULTRASOUNDS DURING PREGNANCY

Carmen Iñiguez, Ferran Ballester, Ruben Amoros, Marisa Estarlich, Mario Murcia, Ana Esplugues, Marisa Rebagliato

Preterm birth and ambient air pollution in Volta Redonda, Rio de Janeiro, Brazil

Marcelo Moreno Reis, Luiz Alberto Amador Pereira, Braga Alféso Luís Ferreira

Ambient air pollution and birth weight in full-term infants in Atlanta, 1994-2004

Lyndsey Darrow, Mitch Klein, Adolfo Correa, W. Dana Flanders, Lance Waller, Michele Marcus, Matthew Strickland, Paige Tolbert

Air Pollution and risk of congenital anomalies in England, 1991-99

Helen Dolk, Ben Armstrong, Martine Vrijheid, Judith Rankin, Lenore Abramsky, Patricia Boyd, Diana Wellesley

## **OS2.8 - Gene environment interaction - oral session 2**

**Wednesday 26 August 2009, 14:00 - 15:30**

Ambient air pollutant exposures, gene-environment interactions and fluctuations in pulmonary function among South African schoolchildren.

*Rajen N Naidoo, Thomas G Robins, Stuart Batterman, Graciela Mentz, Poovendhrie Reddy*

Lead exposure, hemoglobin and intelligence quotient: Effect modification by dopamine receptor D2 Taq IA polymorphism among children in Chennai, India

*Ananya Roy, David Bellinger, Howard Hu, Rama Modali, Joel Schwartz, Robert Wright, Kavitha Palaniapan, Kalpana Balakrishnan*

Exposure to Bisphenol A affects liver function in urban adults

*Hyunseung Park, Yun-Chul Hong, Kwan-Hee Lee, Jong-Han Leem, Eun-Hee Ha*

Annual Ambient Black Carbon Associated with Shorter Telomeres in the Greater Boston Area

*John McCracken, Andrea Baccarelli, Mirjam Barbullushi, Laura Dioni, Helen Suh, Robert Wright, Pantel Vokonas, Joel Schwartz*

Association between Phthalates Exposure and Glutathione S-transferase M1 Genotype on Estrogen-Dependant Diseases

*Po-Chin Huang, Eing-Mei Tsai, Wan-Fen Li, Pao-Chi Liao, Meng-Chu Chung, Ya-Hui Wang, Su-Li Wang*

## **Coffee**

**Wednesday 26 August 2009, 15:30 - 16:00**

### **OS3.1 - Climate change, heat waves, and mortality - climate change oral session 2**

**Wednesday 26 August 2009, 16:00 - 17:30**

Excess mortality during heat waves in Ireland

*Mathilde Pascal, Pat Goodman, Luke Clancy, Ariana Zeka, Joel Schwartz*

Assessment of health impacts of heatwaves in Brisbane, Australia: How to best define a heatwave?

*shilu tong, xiaoyu wang, adrian barnett*

ASSESSMENT OF MORBIDITY OF THE POPULATION OF THE KYRGYZ REPUBLIC UNDER CLIMATE CHANGE SCENARIOS

*Ainash Sharshenova, Kulbara Arzygulova*

Seasonal difference of ambient temperature effect on blood pressure change

*Yun-Chul Hong, Ho Kim, Se-Young Oh, Min-*

*Seon Park*

Vulnerability to heat-related morbidity and mortality in Copenhagen, Denmark

*Janine Wichmann, Zorana Andersen, Matthias Ketzel, Steffen Loft*

## **OS3.2 - Symposium 34 - Human Biomonitoring in the 21st Century: Use, and Application to Environmental Epidemiology**

**Wednesday 26 August 2009, 16:00 - 17:30**

Results from biomonitoring in 5 repeated German HBM surveys - The German Environmental Surveys (GerES)

*Marike Kolossa-Gehring, Kerstin Becker, André Conrad, Christine Schulz, Margarete Seiwert*

Human Biomonitoring in Accident and Incident Management

*Ovnair Sepaj, Aleksandra Fucic*

Current relevance of new biomarkers for inclusion into HBM surveillance studies

*Jürgen Angerer, Holger Koch, Ulrich Ewers, Jürgen Hölzer, Thomas Brüning, Michael Wilhelm*

A National Human Biomonitoring Program on POPs and Heavy Metals in Spain

*Argelia Castaño, Marta Esteban, Javier Roman, Beatriz Pérez, José A. Jimenez, Roberto Pastor, Eva Calvo, Gema Díaz, Montserrat Ruiz, Marina Pollan, Nuria Aragonés, Carmen Navarro, Ana Cañas, Olga Huetos, Monica Bartolome, Gonzalo Lopez-Abente*

Foetal exposure to lead and related effects on newborns in two Portuguese regions

*M. Fátima Reis, Sónia Namorado, Rita Carrola, Pedro Aguiar, Ana Brantes, Filipa Simão, Maurício Melim, Liliana Cardoso, J. Pereira Miguel*

Associations between the children's blood lead level and their health status

*Peter Rudnai, Mihály János Varró, Tamás Rudnai, Miklós Náray, Bernadette Schoket, Livia Anna, Erika Györfy, Katalin Kovács, József Ürömi, Tamás Herczegh, Judit Bodnár*

Recent steps to a Harmonised Approach to HBM across Europe.

*Ludwine Casteleyn, Birgit Van Tongelen, Reinhard Joas, Alexandra Polcher, Pierre Biot, Anne Catherine Viso*

Human Biomonitoring and Ethics  
Lisbeth E. Knudsen

### **OS3.3 - Symposium 26 - The Impact of Residential Mobility on Environmental Epidemiology Studies**

**Wednesday 26 August 2009, 16:00 - 17:30**

Residential mobility, cancer and local indicators of geocoding error

Geoffrey Jacques, Robert Rommel

The influence of occupational and residential address data and additional factors on estimates of historical pesticide exposure from a GIS model

Beate Ritz, Nicole Gatto, Anthony Wang, Myles Cockburn

Residential mobility during pregnancy in the north of England

Susan Hodgson, Palitha Karunapema, Payam Dadvand, Mark Shirley, Mary Bythell, Judith Rankin

The Impact of Residential Mobility on Birth Outcomes in Washington State

Sylvia Brown, Richard Hoskins, Elizabeth Marshall, Clifford Weisel, Gerald Harris, Denise Roe, Daniel Wartenberg

Approaches for reconstructing exposures accounting for human mobility and space-time variability in environmental contaminants

Jaymie Meliker

The Impact of Residential Mobility on Exposure Assessment in Cancer Epidemiology

John Nuckols, Matthew Airola, Joanne Colt, Ali Johnson, Molly Schwenn, Richard Waddell, Margaret Karagas, Debra Silverman, Mary H. Ward

### **OS3.4 - Oxidative stress - oral session**

**Wednesday 26 August 2009, 16:00 - 17:30**

Long- and short-term residential exposure to urban air pollution and blood markers of systemic inflammation and coagulation

Barbara Hoffmann, Anja Viehmann, Sabine Hertel, Susanne Moebus, Stefan Möhlenkamp, Nico Dragano, Martina Bröcker-Preuss, Christoph Kessler, Michael Memmesheimer, Hermann Jakobs, Raimund Erbel, Karl-Heinz Jöckel

pH in exhaled breath and ozone exposure:  
interaction with GSTM1 and GSTP1  
*Isabelle Romieu, Albino Barraza-Villarreal,  
Consuelo Escamilla-Nuñez, Leticia  
Hernández-Cadena, Li Huiling, David Díaz-  
Sánchez, Hortensia Moreno-Macía,  
Stephanie London*

Plasma Homocysteine, Particulate Air  
Pollution, and Oxidative Stress-related  
Genes -- A gene-environment Interaction  
*Cizao Ren, Sung Park, Pantel Vokonas,  
David Sparrow, Elissa Wilker, Andrea  
Baccarelli, Helen Suh, Katherine Tucker,  
Robert Wright, Joel Schwartz*

Air Pollution and Inflammation: Gene-  
Environment Interactions in Myocardial  
Infarction Survivors  
*Annette Peters, Regina Hampel, Melanie  
Kolz, Susanne Breitner, Tom Bellander,  
Juha Pekkanen, Francesco Forastiere, Jordi  
Sunyer, Klea Katsouyanni, Thomas Illig,  
Wolfgang Koenig, Alexandra Schneider, Iris  
M. Heid*

Air Pollution Causes Oxidative Stress in  
School Children.  
*Sanghyuk Bae, Xiaochuan Pan, Su-Young  
Kim, Kwangsik Park, Yoon-Hee Kim, Ho  
Kim, Yun-Chul Hong*

### **OS3.5 - Symposium 2 - Aphekom – Communicating Air Pollution and Health Research to Policy Relevant Audiences**

**Wednesday 26 August 2009, 16:00 - 17:30**

IMPROVING KNOWLEDGE AND  
COMMUNICATION FOR DECISION  
MAKING ON AIR POLLUTION AND  
HEALTH IN EUROPE (Aphekom)  
*Hanns Moshhammer, Bertil Forsberg, Nino  
Künzli, Sylvia Medina*

Deriving and Communicating Risks:  
Strengths, Needs, Opportunities  
*Nino Künzli*

### **OS3.6 - Waste and waste management - oral session**

**Wednesday 26 August 2009, 16:00 - 17:30**

Cluster analysis of mortality in an area of  
Campania Region (Italy), with intense  
environmental pressure due to waste  
*Fabrizio Bianchi, Fabrizio Minichilli, Renato  
Pizzuti, Michele Santoro*

CHANGES IN LEVELS OF

POLYCHLORINATED DIBENZODIOXINS AND DIBENZOFURANS (PCDD/Fs) AND DIOXIN-LIKE PCBs IN THE GENERAL POPULATION LIVING NEAR TO AN URBAN WASTE TREATMENT PLANT IN BILBAO (SPAIN)

*Miren Begoña Zubero, Juan José Aurrekoetxea, Jesús María Ibarluzea, Josep Rivera, Jordi Parera, Esteban Abad, Carlos Rodríguez, José Ramon Sáenz*

Estimating cancer incidence attributable to incinerators: a tool for health impact assessment

*Andrea Ranzi, Francesco Forastiere, Daniela Porta, Laura Erspamer, Paolo Lauriola, Carlo Alberto Perucci*

Health impact assessment of waste management facilities in three European countries

*Francesco Forastiere, Chiara Badaloni, Cornelis de Hoogh, Martin Kraye von Kraus, Marco Martuzzi, Francesco Mitis, Lubica Palkovicova, Daniela Porta, Philipp Preiss, Andrea Ranzi, Carlo Alberto Perucci, David Briggs*

Population exposure to a persistent organic pollutant ( $\beta$ -HCH) following waste disposal from a chemical plant (Sacco River Valley, Italy)

*Daniela Porta, Elena De Felip, Fiorella Fantini, Francesco Blasetti, Annalisa Abballe, Valerio Dell'Orco, Alessandro di Domenico, Valeria Fano, Anna Maria Ingelido, Carlo Alberto Perucci*

### **OS3.7 - Exploring the range of methodological approaches available for environmental epidemiology - methodology oral session 1**

**Wednesday 26 August 2009, 16:00 - 17:30**

Causal Models for Addressing the Healthy Worker Effect in an Occupational Cohort Study.

*Jonathan Chevrier, Ellen Eisen*

Application of two probabilistic models, using either environmental monitoring or human biomonitoring data, to estimate human health risk due to mercury exposure in a small scale gold mining region in Central Nicaragua.

*Steven Cuadra, Francisco Picado, Göran Bengtsson, Kristina Jakobsson*

Toward a more informative approach for the analysis of environmental and occupational

variables based on cumulative exposure and exposure rate.

Jay Lubin

Advanced communication tools and a qualitative research to complement epidemiological study

Liliana Cori, Vincenza Pellegrino, Mariangela Protti, Fabrizio Bianchi

Qualitative data in the study of environmental health: An analysis of the literature.

Madeleine Scammell

### **OS3.8 - Indoor air quality - oral session 1**

**Wednesday 26 August 2009, 16:00 - 17:30**

Exposure assessment of allergens and endotoxin in vacuum dust samples collected from homes in an agricultural region with industrial dairy operations

D'Ann Williams, Alison Geyh, Shawn McKenzie, Meredith McCormack, Patrick Breyse

Asthma phenotypes modify the impact of environmental factors on children's lung function.

Lucas Neas

The Impact of Portable Air Filters on Indoor Air Pollution and Microvascular Function in a Woodsmoke-Impacted Community

Ryan Allen, Thurza Aspinall, Chris Carlsten, Barbara Karlen, Sara Leckie, Amelia Mattson, Stephan van Eeden, Sverre Vedal, Michael Brauer

The German Environmental Survey for Children (GerES IV): Irritation of Eyes and the Respiratory System correlate with Pollutants in Indoor Air and Other Environmental Factors

André Conrad, Margarete Seiwert, Christine Schulz, Kerstin Becker, Marike Kolossa-Gehring, Wolfgang Straff

Prenatal exposure to gas cooking and neurodevelopment at 14 months

Martine Vrijheid, David Martinez, Mariona Bustamante, Joan Forn, Monica Guxens, Jordi Sunyer

### **Plenary Session 2: Awards Plenary**

**Wednesday 26 August 2009, 17:45 - 18:45**

Recipient of the John Goldsmith Award for  
Outstanding Contributions to  
Environmental Epidemiology,  
Recipient of the ISEE Research Integrity  
Award

## Thursday 27 August 2009

### Training Session

Thursday 27 August 2009, 07:30 - 08:30

### Plenary Session 3: Mouths, Meals, Methane and Malthus

Thursday 27 August 2009, 08:30 - 10:00

Tony McMichael: Australia,

Bob Watson: UK,

Steve Wing: USA

### Coffee

Thursday 27 August 2009, 10:00 - 10:30

### OS4.1 - Heavy metals and CNS fx - heavy metals oral session 1

Thursday 27 August 2009, 10:30 - 12:00

Elevated blood lead levels negatively impacts kindergarten reading readiness

*Pat McLaine, Ana Navas-Acien, Marie Diener-West, Peter Simon, Jacqueline Agnew*

Association of perinatal exposure to methylmercury and fatty acids with neurobehavioral test performance at ages 7 years and 10 years

*Anna Choi, Frodi Debes, Katsuyuki Murata, Esben Budtz-Jorgensen, Pal Weihe, Philippe Grandjean*

Blood lead levels and major depressive disorder, panic disorder, and generalized anxiety disorder in U.S. young adults

*Maryse Bouchard, David C. Bellinger, Jennifer Weuve, Julia Matthews-Bellinger, Stephen Gilman, Robert O. Wright, Joel Schwartz, Marc G. Weisskopf*

Sensitivity of Continuous Performance Test (CPT) to Methylmercury Exposure at Age 14 Years

*Jordi Julvez, Frodi Debes, Anna Choi, Pal Weihe, Philippe Grandjean*

Selenium and health benefits from traditional foods in the Brazilian Amazon

*Mélanie Lemire, Myriam Fillion, Benoit Frenette, Carlos José Sousa Passos, Jean Remy Davée Guimarães, Fernando Barbosa Jr, Donna Mergler*

### OS4.2 - Respiratory and cardiovascular health effects of climate exposures - climate change oral session 3

Thursday 27 August 2009, 10:30 - 12:00

Effects of the climate change on hospital admissions by

respiratory diseases in the subequatorial Amazon  
*Eliane Ignotti, Washington Junger, Sandra Hacon, Paulo Artaxo, Karla Longo, Antônio Ponce de Leon*

Temperature and the Risk of Acute Ischemic Stroke: Results from the Registry of the Canadian Stroke Network

*Gregory Wellenius, Martin O'Donnell, Jiming Fang, Moira Kapral, Murray Mittleman*

Associations of endothelial function and air temperature in diabetic individuals

*Alexandra Schneider, Lucas Neas, Margaret Herbst, Martin Case, Wayne Cascio, Alan Hinderliter, Annette Peters, Robert Devlin*

A case-crossover analysis on the association of daily maximum temperature with Daily Hospital Emergency Room Visits for cardiovascular and cerebrovascular diseases

*Xiaochuan Pan, Jiajia Wang, Yuming Guo, Guoxing Li, Junhan Liu*

### **OS4.3 - Geographical/GIS spatial analysis studies - oral session 1**

**Thursday 27 August 2009, 10:30 - 12:00**

Environmental exposure to dioxins from living near industrial combustion sources and risk of non-Hodgkin Lymphoma

*Anjoeka Pronk, John R. Nuckols, Anneclaire J. De Roos, Matthew Airola, Joanne S. Colt, James R. Cerhan, Richard Severson, Aaron Blair, David Cleverly, Mary H. Ward*

Spatial Analysis of Rheumatoid Arthritis in the Nurses' Health Study

*Veronica Vieira, Thomas Webster, Janice Weinberg, Jaime Hart, Francine Laden, Karen Costenbader, Elizabeth Karlson*

Evaluating geographic imputation approaches for zip code level data: An application to a study of pediatric diabetes

*James Hibbert, Angela Liese, Andrew Lawson, Dwayne Porter, Robin Puett, Debra Standiford, Lenna Liu, Dana Dabelea*

Ecological Determinants of Endoscopic Colorectal Cancer Screening over Time in 11 States

*Lee Mobley, John Boos, Tzy-Mey Kuo, Matthew Urato, Nancy Lozano-Gracia, Luc Anselin*

Socioeconomic inequality and congenital anomalies; a small-area analysis.

*Payam Dadvand, Judith Rankin, Susan Hodgson, Stephen Rushton*

**OS4.4 - Symposium 3 - Mother and Child Contaminants and Dietary Impacts on the Body Burden of Contaminants: Contribution of North-South Research Collaboration to Maternal and Child Global Health**

Thursday 27 August 2009, 10:30 - 12:00

MOTHER AND CHILD CONTAMINANTS AND DIETARY IMPACTS ON THE BODY BURDEN OF CONTAMINANTS: CONTRIBUTION OF NORTH-SOUTH RESEARCH COLLABORATION TO MATERNAL AND CHILD GLOBAL HEALTH

Jon Oyvind Odland

Contaminant studies of the delivering population in Murmansk Region, Russia.

Erik Eik Anda, Jon Oyvind Odland, Anton Kovalenko

The Russian Arctic mother-child cohort - the first results of a follow up study of persistent toxic substances (PTS) blood levels

Aleksey Dudarev, Jon Oyvind Odland, Lars Otto Reiersen

CONCENTRATIONS OF TOXIC METALS IN BLOOD AND CORD BLOOD OF DELIVERING WOMEN FROM THREE INDIAN OCEAN COASTAL COMMUNITIES, SOUTH AFRICA. NORTH-SOUTH RESEARCH COLLABORATION

Halina Rollin, Jon Oyvind Odland, P. Theodoru, I. Naik

REGIONAL DIFFERENCES IN LEVELS OF PERSISTENT ORGANIC POLLUTANTS IN PLASMA OF SOUTH AFRICAN DELIVERING WOMEN: IMPACT OF THE REINTRODUCTION OF DDT USE IN MALARIA AREAS

Halina Rollin, Jon Oyvind Odland, Torkjel Sandanger, Kalavati Channa

The North Norwegian / Vietnamese mother and child contaminant study

Jon Oyvind Odland, Solrunn Hansen, Torkjel Sandanger, Evert Nieboer, Duong Trong Phi

A Pilot Study of Levels of Persistent Toxic Substances (PTS) in Blood of Delivering women from Selected Areas of São Paulo State, Brazil. A regional and global study of contaminant exposure and human reproductive health in the context of climate change .

Jon Oyvind Odland, Cibele Viera Rudge, Torkjel Sandanger

**OS4.5 - Air pollution and pregnancy outcomes - oral session 1**

Thursday 27 August 2009, 10:30 - 12:00

Exposure to ambient NO<sub>2</sub> during pregnancy and head circumference in the INMA cohort in Valencia, Spain

Ferran Ballester, Marisa Estarlich, Carmen Iñiguez, Sabrina Llop, Ana Esplugues, Marisa Rebagliato

Interaction between black smoke and neighbourhood socio-economic status and their association with birth weight

Rakesh Ghosh, Svetlana V Glinianaia, Mark S Pearce, Judith Rankin, Tanja Pless-Mulloli

Multi-pollutant analysis of reproductive outcomes and air pollution using the CMAQ model

Michael Brauer, Lillian Tamburic

The effect of prenatal exposure to urban air pollution on fetal growth assessed by ultrasound measurements

Inma Aguilera, Raquel Garcia-Esteban, Carmen Iñiguez, Ferran Ballester, Jordi Sunyer

Impact of pre- and postnatal exposure to environmental tobacco smoke (ETS) on the sudden infant death syndrome (SIDS)

Dimitri Hauri, Anke Huss, Evelyn Mohler, Patrizia Frei, Martin Röösl

#### **OS4.6 - Respiratory oral session 1**

**Thursday 27 August 2009, 10:30 - 12:00**

A Comparison of the Effects of Ambient Air Pollution on Outpatient Visits for Acute Respiratory Illnesses over Two Time Periods

Amber Sinclair, Eric Edgerton, Ron Wyzga, Dennis Tolsma

A Prospective Study of Arsenic Induced Respiratory Symptoms and Chronic Obstructive Pulmonary Disease (COPD): Findings from Health Effects of Arsenic Exposure Longitudinal Study (HEALS) in Bangladesh

Faruque Parvez, Yu Chen, Mahbub Yunus, Maira Argos, Vesna Slavkovich, Tariqul Islam, Olgica Balac, Paul Brandt-Rauf, Joseph Graziano, Habibul Ahsan

Comparing risk factors of atopic and non-atopic asthma may lead to misleading conclusions

Juha Pekkanen, Jussi Lampi, Anna-Liisa Hartikainen, Marjo-Riitta Järvelin

RESPIRATORY SYMPTOMS AND VENTILATORY CAPACITY IN METAL POLISHERS

Tanveer Husain, Subhodh Rastogi, Neeraj Mathur

Incidence of bronchial hyperresponsiveness among apprentices exposed to flour dust and hairdressing chemicals and changes in exhaled nitric oxide

Paul Tossa, Christophe Paris, Valérie Demange, Pascal Wild, Stéphanie Acouetey, Jean-Pierre Michaely, Thomas Remen, Abraham Bohadana, Denis Zmirou-Navier

#### **OS4.7 - Cardiovascular outcomes - oral session**

**Thursday 27 August 2009, 10:30 - 12:00**

Fine Particulate Air Pollution (PM<sub>2.5</sub>) Increases

Emergency Hospital Admissions due to Decompensate Heart Failure

Jeanette Vera, Pablo Castro, Luis Cifuentes, Gregory Wellenius, Hugo Verdejo, José Luis Vukasovic

The association between fatal Coronary Heart Disease and Ambient Fine Particulate Air Pollution. Preliminary findings from the AHSMOG-2 study.

David Shavlik, Samuel Soret, Lawrence Beeson, Lie Hong Chen, Synnove Knutsen

Ischemic Heart Disease Mortality Associations with Long-Term Exposure to PM<sub>2.5</sub> Components

George Thurston, Richard Burnett, Dan Krewski, Yuanli Shi, Michelle Turner, Kazuhiko Ito, Ramona Lall, Michael Jerrett, Eugenia Calle, Michael Tunne, C. Arden Pope

Acute effects of PM<sub>2.5</sub> on ventricular repolarization

Duanping Liao, Michele Shaffer, Xian Li, Sol Rodriguez-Colon, Jiahao Liu, Deborah Wolbrette, Fan He, Wayne Cascio

Personal measurements of ultrafine particles are associated with decreased heart rate variability

Regina Rückerl, Regina Hampel, Tarja Ylin-Tuomi, Timo Lanki, Susanne Breitner, Josef Cyrus, Mike Pitz, Petra Belcredi, Irene Brüske-Hohlfeld, Kathrin Wolf, Ute Küpper, Kirsi Timonen, H.Erich Wichmann, Annette Peters, Alexandra Schneider

## **OS4.8 - Symposium 37 - Advances in Air Pollution Exposure Assessment**

**Thursday 27 August 2009, 10:30 - 12:00**

The Value of Human Exposure Monitoring in the DEARS

Ron Williams, Alan Vette, Carry Croghan, Paul Jones, Carvin Stevens, Charles Rodes, Jonathan Thornburg, Phil Lawless, Hunter Daughtrey

STEMS-Air: a GIS-based dispersion model for city-wide exposure assessment

John Gulliver, David Briggs

Air pollution exposure in Europe - assessment in the ESCAPE study

Gerard Hoek, Rob Beelen, Marloes Eeftens, Kees Meliefste, Geert de Vrieze, David Briggs, Josef Cyrus, Bertil Forsberg, Christian Madsen, Mark Nieuwenhuijsen, Sally Liu, Audrey de Nazelle, Bert Brunekreef

Constructing and Validating Modelling Concentration Surfaces for Black Smoke and Sulphur Dioxide Across GB, 1955-2001

Chloe Morris, Anna Hansell, John Gulliver, Danielle Vienneau, David Briggs

Oxidative potential: moving towards a toxicity based measure of PM exposure

Cathryn Tonne, Sean Beevers, Paul Wilkinson, Frank Kelly

## PS2.1 - Heavy metals poster session

Thursday 27 August 2009, 12:00 - 13:00

The importance of mercury speciation in the association of mercury exposure during pregnancy with elevated maternal blood pressure

*Ellen M Wells, Carl P Verdon, Jeff Jarrett, Kathleen L Caldwell, Frank Witter, Ana Navas-Acien, Lynn R Goldman*

Influence of folic acid supplementation on genomic DNA methylation: findings from a randomized, placebo-controlled trial in Bangladeshi adults

*J Richard Pilsner, Megan Hall, Xinhua Liu, Vesna Ilievski, Vesna Slavkovich, Habibul Ahsan, Pam Factor-Litvak, Joseph Graziano, Mary Gamble*

LEAD EXPOSURE AND INDICATORS OF BIOLOGICAL EFFECT

*Ligia Fat, Ludovic Gyorffy*

DETERMINANTS OF BLOOD CADMIUM, LEAD, ARSENIC, URANIUM, MERCURY AND MOLYBDENUM LEVELS AMONG PREGNANT WOMEN IN CRETE, GREECE

*Constantine Vardavas, Evridiki Patelarou, Leda Chatzi, Martine Vrijheid, Anthony Koutis, Eleni Fthenou, Margaretha Grander, Brita Palm, Manolis Kogevinas, Marie Vahter*

Single Nucleotide Polymorphism (SNP) Analysis of Metallothionein 2A gene in White and Black females

*Jane McElroy, Elizabeth Bryda, Robert Schnabel, Stephanie McKay, Jeremy Taylor*

Cumulative internal dose of uranium in workers close to phosphogypsum waste piles

*Juan Alquacil, Rocío Capelo, Tamara García, Carmen Manzano, Judith Anglada, Maria Teresa Gomez, Macarena Gonzalez, Jesus de la Rosa, Amara Garcia, Macarena Prieto, Jose Luis Gomez-Ariza*

Speciation analysis of arsenic compounds in healthy human urine by HPLC-ICP-MS for the evaluation of the occupational inorganic arsenic exposure

*Yoshihiro Suzuki, Yasuyo Shimoda, Yoko Endo, Akihisa Hata, Kenzo Yamanaka, Ginji Endo*

Maternal and umbilical cord blood levels of arsenic, cadmium, manganese, and lead in rural Bangladesh

*Molly Kile, Robert Wright, Chitra Amarasiriwardena, Quazi Quamruzzaman, Mahmuder Rahman, Golam Mahiuddin, David Christiani*

Content of toxic elements in the blood of children from ecologically hazardous region in Bulgaria

*Tanya Turnovska, Todorka Tzvetkova, Georgi Tarnovski*

Mercury - an Important Contaminant and Its Existence in

Milk and Blackcurrant in the Slovak Republic  
Tatiana Kimakova, Kamila Bernasovska, Janka Poracova, Tatiana Kimakova

Exposure to Thimerosal in tetanus-diphtheria vaccine during pregnancy and neurodevelopment at six months of breastfed babies.

Rejane Marques, José Dórea, José Bernardi

Environmental Lead Exposure and Mortality in Taiwan: Implementation of petrol-lead phase-out program from 1981 to 2006

Wei-Te Wu, Trong-Neng Wu

Remediation of arsenic-contaminated sites in Sweden - few avoided cancer cases

Lars Barregard, Johanna Forslund Kullander, Eva Samakovlis, Marie Vredin Johansson

Reduced atmospheric manganese in Montreal following removal of Methylcyclopentadienyl Manganese Tricarbonyl (MMT)

Alexandre Joly, Jean Lambert, Claude Gagnon, Kristof Szyncel, Greg Kennedy, Donna Mergler, Joseph Zayed

The Effects of Lead Exposure on the Activities of  $\delta$ -Aminolevulinic Acid Dehydratase (ALAD) with the Modification of the Relative Genotypes

Chia-Chen Hsieh, Te-Yu Liu, Yu-Wen Chiu, Hung-Yi Chuang

Prevalence of Blood Lead Level in Children Living in a Community Exposed by Lead Glazed Ceramics in Michoacan, Mexico.

Alejandro Molina-Garcia, Gerardo Mendoza-Ramirez, Virgilio Perez-Negrón, Laura Huanosto-Gutierrez, Josefina Martinez-Ponce, Victor Rene Andrade-Chavez, Roman Armando Luna-Escalante

The Effects of Blood Lead and HFE Polymorphism on Serum Iron and RBC Mean Corpuscular Volume among Lead Workers in Taiwan

Chien-Juan Chen, Yu-Wen Chiu, Tin-Yi Lin, Hung-Yi Chuang

An Integrated Assessment of Heavy Metals at the European Level

Peter Fantke, Alexandra Kuhn, Rainer Friedrich

Blood Lead Levels of Rural Children and its trend in China

Juan Qin, Jinliang Zhang

The influence of atmospheric total gaseous mercury on the exposure and health effects of school children near the facilities emitting mercury in Korea

Geun Bae Kim, Jong Hwa Lee, Hee Jin Park, Dae Seon Kim

A calcium supplementation that reduced lead concentration in pregnant women is associated with a

positive effect on length of their offspring the first year of life.

*Alejandra Cantoral, Martha M. Tellez-Rojo, Héctor Lamadrid-Figueroa, Karen Peterson, Adrienne Ettinger, Mauricio Hernández-Ávila, Howard Hu*

Efficacy of succimer chelation of mercury at background exposures in toddlers: randomised trial

*Yang Cao, Aimin Chen, Robert Jones, Shyamal Peddada, Jerilynn Radcliffe, Kim Dietrich, Kathleen Caldwell, Walter Rogan*

Environmental pollution and blood lead and cadmium levels among children living around a lead-zinc smelter plant and tailings-pond in the area of Kardzhali, Bulgaria.

*Jeni Staykova, Plamen Dimitrov*

Body burdens of mercury (Hg), cadmium (Cd), and lead (Pb) and oocyte fertilization among women undergoing a 1<sup>st</sup> cycle of in vitro fertilization

*Michael Bloom, Patrick Parsons, Steuerwald Amy, Gregory Coccaro, Enrique Schisterman, Richard Browne, Giulia Conti, Natasha Narayan, Victor Fujimoto*

The relationship between dental caries and unleaded gasoline usage among children

*Ya-Hui Yang, Trong-Neng Wu*

## **PS2.1 - Respiratory poster session - Asthma and allergies**

**Thursday 27 August 2009, 12:00 - 13:00**

Is ADHD a risk factor of asthma?

*Ho-Jang Kwon, Mina Ha, Eun Jung Kim, Yun-Chul Hong, Jong-Han Leem, Joon Sakong, Su-Young Kim, Chul Gab Lee, Dongmug Kang, Soo-Jong Hong*

Childhood Asthma Acute Primary Care Visits, Traffic, and Traffic-Related Pollutants

*Amber Sinclair, Steven Melly, Dennis Tolsma, Ron Wyzga, John Spengler, Annette Rohr*

Vitamin D and Asthma Symptoms in a Cohort of Inner-city Children in Baltimore, MD

*Patrick Breysse, Elizabeth Matsui, Nadia Hansel, Meredith McCormack, Robert Rusher, Jean Curtin-Brosnan, Gregory Diette*

Environmental predictor of allergen in dust samples and its relation to Total IgE levels in cord blood in Cuernavaca, Morelos Mexico.

*Leticia Hernandez-Cadena, Albino Barraza-Villarreal, Michel Sever, Darryl Zeldin, María Consuelo Escamilla-Nuñez, Peter Sly, Isabelle Romieu*

Variations in peak expiratory flow measurements associated to air pollution and allergic sensitization in children in São Paulo, Brazil

*Joya Correia-Deur, Luz Claudio, Jeanette Stingone, Alice Imazawa, José Eluf Neto*

The temporal association between air pollution and asthma syndromic illness counts in New York City is modified by neighborhood traffic density

Kazuhiko Ito, Zev Ross, Kristina Metzger, George Thurston, Thomas Matte

Elementary school indoor environmental exposures and airway inflammation in children with asthma.

Elanor Sidman, Thomas Koepsell, Jane Koenig, Catherine Karr, Harvey Checkoway

Fine Particulate Air Pollution and Asthma in Adults

Keeve Nachman, Jennifer Parker

Climate and Atopic Disease in Children in Temperate Countries in Europe and North America

Sari Kovats, Sam Pattenden, Ben Armstrong, Temenuga Antova, Francesco Forastiere, Leticia Grize, Joachim Heinrich, Larissa Privalova, Peter Rudnai, Katarina Slotova, Frank Speizer

Impact of socio-economic state on the prevalence of allergic and respiratory symptoms and diseases and in Hungarian children population

Anna Paldy, Peter Rudnai, Mihaly Janos Varro, Annamaria Macsik, Eszter Szabo, Attila Juhasz, Csilla Nagy

Acute Associations between Ambient Air Pollution and Pediatric Asthma Emergency Department Visits in Atlanta, 1993-2004

Matthew Strickland, Lyndsey Darrow, Mitchel Klein, Jeremy Sarnat, W. Dana Flanders, Stefanie Sarnat, Lance Waller, Paige Tolbert

German Environmental Survey for children (GerES IV): fungi in homes and sensitisation of children in Germany

Regine Szewzyk, Kerstin Becker, Andreas Huenken, Christine Schulz, Margarete Seiwert, Marike Kolossa-Gehring

The relation between home dampness and molds, Interleukin-4 promoter, and atopic asthma among Taiwanese school children

I-Ping Liu, Bing-Fang Hwang, Jia-Shian Shiu

Allergic Rhinitis, Allergic Sensitization, and Exposure to Traffic-related Air Pollution in School Children

Hwan-Cheol Kim, Jong-Han Leem, Ji-Young Lee, Ho-Jang Kwon, Soo-Jong Hong, Dong-Hoon Lee

Short-term associations between coarse PM levels and emergency department visits for asthma in Stockholm.

Kadri Meister, Bertil Forsberg

## **PS2.1 - Outdoor air pollution poster session**

**Thursday 27 August 2009, 12:00 - 13:00**

Change in Residential Proximity to Traffic and Risk of Death from Coronary Heart Disease

Wenqi Gan, Lillian Tamburic, Hugh Davies, Paul Demers, Mieke Koehoorn, Michael Brauer

Air pollution and the risk of venous thrombo-embolism  
Paola Colais, Annunziata Faustini, Giovanna Berti, Luigi Bisanti, Achille Cernigliaro, Monica Chiusolo, Sandra Mallone, Paolo Pandolfi, Carlo A. Perucci, Maria Serinelli, Massimo Stafoggia, Roberta Tessari, Maria A. Vigotti, Francesco Forastiere, EPIAIR collaborative Group

Cardiovascular effects of the outdoor air pollution in Tuscany: preliminary results of the RisCAT study  
Alessandro Barchielli, Daniela Balzi, Daniela Nuvolone, Daniele Grechi, Danila Scala, "Urban air quality and health" ARPAT Working Group

Acute effects of PM<sub>2.5</sub> on cardiac autonomic modulation  
Duanping Liao, Michele Shaffer, Xian Li, Sol Rodriguez-Colon, Jiahao Liu, Deborah Wolbrette, Fan He, Wayne Cascio

The relationship between air pollution reduction and heart rate variability in aged susceptible people during Beijing Olympic Games in 2008  
Yuping Jia, Yuming Guo, Xiaochuan Pan, Zhenyu Wang, Yongzhen Xie, Xiaoyan Tang, Tong Zhu

Air pollution and hospital admissions for congestive heart failure in a subtropical city: Taipei, Taiwan.  
Hui-Fen Chiu, Chun-Yuh Yang

Air Pollution Exposure - A Trigger for Myocardial Infarction?  
Niklas Berglind, Petter Ljungman, Jette Möller, Johan Hallqvist, Fredrik Nyberg, Mårten Rosenqvist, Göran Pershagen, Tom Bellander

Increase in the death risk for respiratory diseases in elderly people associated with air pollution in Volta Redonda city, Rio de Janeiro State, Brazil  
Marcio Oliveira, Inês Mattos, Sérgio Koifman

Predisposed to low basal air pollution level increases hospitalization risk for cardiovascular diseases  
Chih-Ching Chang, Kao-Li Lin

Modifiers of Short-term Effects of Ozone on Mortality in the Eastern Massachusetts-- A case-crossover analysis at individual level  
Cizao Ren, Joel Schwartz, Steve Melly

Residential traffic exposure and diabetes: medication by environment interactions along the inflammation pathway  
christine rioux, Doug Brugge, Mkaya Mwamburi, David Gute, Steven Cohen

Association Between Ambient Air Pollutants and Fatal Coronary Heart Disease Among Renal Transplant Recipients  
Rhonda Spencer-Hwang, Sam Soret, Mark Ghamsary,

*David Shavlik, W. Lawrence Beeson, Synnove F. Knutsen*

Short-term Effects of Air Pollution on Exhaled Nitric Oxide in Diabetic Patients

*Heike Luttmann-Gibson, Barbara Hoffmann, Allison Cohen, Brent Coull, Celine de Souza, Edward Horton, Joel Schwartz, Helen Suh, Diane Gold*

## **PS2.1 - Exposure assessment poster session**

**Thursday 27 August 2009, 12:00 - 13:00**

Paraoccupational And Environmental Mercury Exposure Due To Small Scale Gold Mining In Central Nicaragua: A Cross-Sectional Assessment Of Blood Mercury Levels In Children And Women

*Steven Cuadra, Thomas Lundh, Kristina Jakobsson*

Identification of pesticide residue sources in low-income African-American households using positive matrix factorization

*Christina Hemphill, Yu Lee, Gary Adamkiewicz, David Camann, Richard Gragg, John Spengler*

Importance of the population exposure model in the impact of PM and daily mortality.

*Valentina Strappa, Luis A. Cifuentes, Hector Jorquera*

By-products associated with structural rehabilitation for water distribution systems

*Denis Gauvin, Benoît Lévesque, Jean-François Duchesne, Alain Leblanc, Éric Gaudreau, Pierre Ayotte*

Fine particle exposures during an episode of long-range transported aerosols from open biomass burning

*Timo Lanki, Tarja Yli-Tuomi, Risto Hillamo, Minna Aurela, Arto Pennanen, Juha Pekkanen, Hilikka Dufva, Juhani Dufva, Iiris Salonen, Raimo Salonen*

Exposure assessment to *Cronobacter sakazakii* in powder infant formula in Ireland.

*Arianna Mussida, Francis Butler*

Using GIS to model pesticide exposure at the small-area level in England

*Danielle Vienneau, David Briggs*

Acrylamide contents in the high-temperature processed Taiwanese traditional foods

*Chiang-Hsing Yang, Kuen-Yuh Wu, Kei-Yau Peng, Shou-Hsin Liu, Chang-Chuan Chan*

Using an integrated food chain model as an instrument to derive health-based threshold values for atmospheric deposition of PCDD/F and DL-PCBs

*Mirja Van Holderbeke, Christa Cornelis, Katleen De Brouwere, Arnout Standaert, Marjory Desmedt, Edward Roekens*

Urinary disease morbidity and mortality in a population

environmentally exposed to cadmium and other nephrotoxic metals.

Laura D K Thomas, Susan Hodgson, Mark Nieuwenhuijsen, Lars Jarup

Spatial modeling of personalized exposure dynamics: the case of pesticide use in small-scale agricultural production landscapes of the developing world  
Stefan Leyk, Claudia Binder, John Nuckols

Feasibility of a Canadian Landuse Regression Model for PM<sub>2.5</sub> Exposure Assessment

Perry Hystad, Eleanor Setton, Alejandro Cervantes, Karla Poplawski, Steve Deschenes, Matt Tomlins, Randall Martin, Aaron Van Donkelaar

Hemoglobin and family characteristics of preschool children with elevated blood lead concentrations from Montevideo, Uruguay.

Elena I Queirolo, Adrienne S Ettinger, Rebecca J Stoltzfus, Katarzyna Kordas

Estimating retrospectively exposures to outdoor air pollution at the intraurban scale in an Ontario cohort study

Hong Chen, Mark Goldberg, Paul Villeneuve, Rick Burnett, Randall Martin, Mike Jerrett, Amanda Wheeler

Estimating long-term exposure to outdoor air pollution at the interurban scale in an Ontario cohort study

Hong Chen, Mark Goldberg, Paul Villeneuve, Rick Burnett, Randall Martin, Amanda Wheeler, Mike Jerrett

Prevalence and predictors of elevated hair metal levels among preschool children and women from Montevideo, Uruguay.

Katarzyna Kordas, Elena I Queirolo, Adrienne S Ettinger, Rebecca J Stoltzfus

Social and physical environmental factors and maternal mental health

Shakira Franco Suglia, Cristiane Duarte, Michelle Sternthal, Michelle Bosquet Enlow, Rosalind J Wright

Short-term Exposure to Ozone and Mortality in three Mexican Cities: Results from the ESCALA Project

Victor Miranda-Soberanis, Washington Junger, Magali Hurtado-Díaz, Leonora Rojas, Guadalupe Tzintzun, Joel Schwartz, Isabelle Romieu

Relationships of Personal Exposure to Temperature, Relative Humidity and Fine Particles with Outdoor Temperature

Tarja Yli-Tuomi, Juha Pekkanen, Josef Cyrus, Alexandra Schneider, Minna Aurela, Arto Pennanen, Hilikka Dufva, Juhani Dufva, Risto Hillamo, Iris Salonen, Raimo O. Salonen, Timo Lanki

Relationships between inhalation exposure, urinary and end exhaled-breath biomarkers among jet fuel exposed Air Force personnel

Kristen Smith, Susan Proctor, Michael McClean

## **PS2.1 - Environmental geochemistry and health poster session**

Thursday 27 August 2009, 12:00 - 13:00

Epidemiological study in an area contaminated by chromium, arsenic, mercury and boron in Tuscany region (Italy)

Fabrizio Minichilli, Michele Amadori, Elisa Bustaffa, Liliana Cori, Anna Pierini, Mariangela Protti, Anna Maria Romanelli, Maria Angela Vigotti, Fabrizio Bianchi

IMMUNE AND OXIDATIVE  
RESPONSE IN THE SIMULTANEOUS EXPOSURE TO  
FORMALDEHYDE AND WOODEN DUST.  
EXPERIMENTAL STUDIES

Didi Surcel, Mariana Botoc, Mioara Butan, Septimiu Toader, Ovidiu Rotaru

Cytogenetic effects of humic substances in decreasing heavy metal migration in the "soil-to-plant" food chain  
Alla Gorova, Artem Pavlychenko, Iryna Klimkina

## **PS2.1 - Geographical/GIS studies poster session**

Thursday 27 August 2009, 12:00 - 13:00

Health Atlas Ireland - when location really matters

H. Johnson, C. Cullen, M. Owens, E. Boyle, D. Doyle, B. McDonnell, B. O'Boyce, P. Dack, D. Beaton, D. De La Harpe, A. Staines, D. Pringle, J. McKeown

PAISARC (+) project: Atmospheric Pollution, Social Inequalities, Asthma and Cardiac Risk : influence of neighbourhood context

Wahida KIHAL, Elise PELEGRIS, Denis BARD, Christiane WEBER

Estimating Traffic Exposure in Primary Care service areas

Eleni Sofianopoulou, Tanja Pless-Mulloli, Stephen Rushton

Mortality in the proximity of a nickel/copper smelter in Finland

Kari Pasanen, Eero Pukkala, Anu Turunen, Toni Patama, Ilkka Jussila, Sari Makkonen, Raimo O Salonen, Pia K Verkasalo

THE ROLE OF SOCIOECONOMIC STATUS IN LUNG  
CANCER INCIDENCE AROUND A DUTCH STEEL  
PLANTA SPATIAL EPIDEMIOLOGY STUDY

Carla Van Wiechen, Marten Marra, Danny Houthuijs, Caroline Ameling, Jan van de Kassteede

Spatiotemporal trends of incidence rates of ulcerative colities and Crohn's disease

Geir Aamodt, Morten H. Vatn

Bayesian spatial analysis of lung cancer incidence in relationship with socio-economic deprivation  
*Ivan Tomasek, Hana Tomaskova, Hana Slachtova, Dagmar Skybova, Pavla Polaufova, Anna Splichalova*

## **Lunch**

**Thursday 27 August 2009, 12:00 - 14:00**

## **PS2.2 - Heavy metals poster session - Foods**

**Thursday 27 August 2009, 13:00 - 14:00**

Dietary supplementation with clean food improves health following community exposure to <sup>137</sup>Cs

*Erik Svendsen, Wilfried Karmaus, Vitaliy Vdovenko, Marina Naboka, Igor Kolpakov, Eugenia Stepanova*

Contribution of food borne exposure to arsenic and to biomarker levels

*Vicki Sayarath, Roxanne Kamiri, Tracy Punshon, Judy Rees, Carol Folt, Scot Zens, Victoria Flanagan, Emily Baker, Rebecca Troisi, Brian Jackson, Susan Korrick, Margaret Karagas*

Prenatal exposure to mercury, fish consumption during pregnancy and associated factors in four Spanish birth cohorts (INMA Project).

*Ferran Ballester, Rosa Ramón, Mario Murcia, Xabier Aguinagalde, Adonina Tardón, Mònica Guxens, Jesús Vioque, Jesús Ibarlucea, Marisa Rebagliato, Jordi Sunyer*

Co-exposure of arsenic and iron causes hepatic injury: a tale of two hits

*Victor Raj Mohan Chandrasekaran, Dur-Zong Hsu, Se-Ping Chien, Ming-Yie Liu*

Speciation analysis of arsenics in commercial edible brown alga (hijiki: *Hijikia fusiforme*) by an HPLC- MS/MS and an HPLC-ICP-MS

*Yasuyo Shimoda, Yoshihiro Suzuki, Yoko Endo, Koichi Kato, Mariko Tachikawa, Masanori Ogawa, Ginji Endo, Kenzo Yamanaka*

Blood Mercury (Hg) Levels among Consumers of Locally Caught Fish Residing on the Cheyenne River Sioux Tribe (CRST) Reservation

*Colleen Martin, Amy Wolkin, Carlyle Ducheneaux, Johnnye Lewis, Jeff Henderson*

## **PS2.2 - Respiratory poster session**

**Thursday 27 August 2009, 13:00 - 14:00**

Stress, traffic related air pollution and eczema and wheeze in the first year of life: Project ACCESS

*Shakira Franco Sughia, Michelle Sternthal, Joel Schwartz, Junenette Peters, Rosalind J Wright*

Effects of industrial emissions on cardiovascular and respiratory markers of asthmatic children in Montreal, Canada

*Mark Goldberg, Marie Raphoz, Audrey Smargiassi, Amanda Wheeler, Robert Dales, Paul Villeneuve, Rick Burnett, Li Chen, Nina Clark, Ryan Kulka, Ling Liu*

Association of consumption frequency of different food items with food allergy among 7-11 year old children in Hungary

*Renáta Szentmihályi, Mihály János Varró, Eszter Szabó, Annamária Mácsik, Péter Rudnai*

A Study on the Effect of Ambient Fine Particles on Peak Expiratory Flow Rates of Children

*Dae-Seon Kim, Choong-Hee Park, Sang-Whan Song, Young-Mee Lee, Woun-Jun Heo*

Infant respiratory mortality due to air pollution in 3 large Brazilian cities: results from the ESCALA project

*Nelson Gouveia, Washington Junger, Antonio Ponce de Leon*

Air pollution and risk factors related to respiratory illness in schoolchildren in the Niger-Delta

*Adetoun Mustapha, David Briggs, Anna Hansell*

SOURCES OF INDOOR AIR POLLUTION AND RESPIRATORY PROBLEMS DURING THE FIRST YEAR OF LIFE OF THE CHILDREN OF THE INMA-Valencia COHORT

*Virginia Fuentes-Leonarte, Marisa Estarlich, Ana Esplugues, Ferran Ballester, Carmen Iñiguez, Alfredo Marco*

Traffic-related elemental carbon exposure and lung function among schoolchildren from Mexico City

*Albino Barraza-Villarreal, Consuelo Escamilla-Nuñez, Leticia Hernández-Cadena, Jose Texcalac-Sangrado, Juan Sierra-Monge, Blanca del Rio-Navarro, Marlene Cortez-Lugo, Isabelle Romieu*

Integral health evaluation of children living in an environment with different level of air pollution and socioeconomic conditions

*Tanya Turnovska, Blagoy Marinov, Stoilka Mandadzhieva, Stefan Kostianev*

The health of children and outdoor air pollution

*Miroslav Dostal, Jiri Nozicka, Eva Rychlikova, Radim Sram*

Impacts of exposure to highway traffic exhaust on childhood respiratory health in trans-Alpine highway valleys

*Martina Ragetti, Regina Ducret-Stich, Charlotte Braun-Fahrlander, Alex Ineichen, Harish C. Phuleria, Christian Schindler, L.-J. Sally Liu*

Respiratory infections associated with average daily ozone exposure was significant for schoolchildren in

Taipei metropolitan.

Yu-Chun Wang, Yu-Kai Lin, Jia-Ming Lin

Availability of 6-Minute Walk Test in Coal Workers' Pneumoconiosis Evaluations

Su Ryeon Noh, Moon Hee Kwon, Yun Suk Pak, Do Myung Paek

Respiratory Outcomes, Work and Ambient Pollution

Rajen Naidoo, Thomas G Robins, Stuart Batterman, Graciela Mentz

Trends of Mortality Rates for Respiratory Diseases in Brazil and Capitals Cities, 1996 to 2005

Marcio Oliveira, Luciana Costa, Inês Mattos

Analysis of spatio-temporal patterns of short-acting  $\beta_2$  agonists prescribing

Eleni Sofianopoulou, Stephen Rushton, Tanja Pless-Mulloli

Atopy prevalence on 33 allergens among industrialized area residents in Gyeonggi-do, Korea (2007)

Moon Hee Kwon, Su Ryeon Noh, Do Myung Paek

Respiratory effects in schoolchildren exposed to industrial sources of particulate material (PM)

Paola Filigrana, Mónica Luna, Fabián Méndez

Air pollution and hospitalization for respiratory infections in children: differential contribution of basal exposure level

Ming-Yie Liu, Chin-Ching Chang

An assessment of the effect of highway proximity to homes and schools on pediatric asthma and lung function

Doug Brugge, Jennifer Siu, Mark Woodin, Carrie Hui, Sarah Moy, Davida Schiff, Dora Hui, Michele Palella

Effect modification of asthma by SES and pest exposure in US and foreign born children

Doug Brugge, Mark Woodin, Alice Tin, Sarah Moy, Michele Palella

Indium lung: Specificity of association between exposure to indium and lung interstitial damage

Makiko Nakano, Akiyo Tanaka, Miyuki Hirata, Noriyu Yoshioka, Takehiro Michikawa, Yuriko Kikuchi, Yuji Nishiwaki, Kazuyuki Omae

Weather and Pollutants Related Incidence of Asthma and Rhinitis

László Makra, Szintia Tombácz, Tekla Eötvös, Edit Kadocsa

The association of body fatness and sedentary time with respiratory symptoms and asthma in 5<sup>th</sup> grade schoolchildren in Kaohsiung, Taiwan.

Hsin-Jen Tsai, Alan C. Tsai, Jeng-Dau Tsai

## PS2.2 - Outdoor air pollution poster session

Thursday 27 August 2009, 13:00 - 14:00

Infiltration of PM<sub>2.5</sub> into homes in Toronto, Canada: Can commonly available housing characteristics be used to improve exposure estimates?

Nina Clark, Amanda Wheeler, Ryan Allen, Perry Hystad, David Stieb, Greg Evans, Hungyu You, Sharon Dell

The Effects of Components of Fine Particulate Matters on Hospitalization in Seoul, Korea, 2003-2006.

Okhee Yi, Jongbae Heo, Seungmuk Yi, Ho Kim

Acute health effects of commuters' exposure to air pollution

Moniek Zuurbier, Gerard Hoek, Marieke Oldenwening, Kees Meliefste, Peter Van den Hazel, Bert Brunekreef

The changes in ozone concentration and its implications following precursor reductions in southern Taiwan from 1999 to 2008

Shuenn-Chin Chang, Tzu-Ping Li, Heng-Cheng Chang

Investigating the transferability of land use regression models between two countries - GB and the Netherlands

Danielle Vienneau, Kees de Hoogh, Rob Beelen, Paul Fisher, David Briggs, Gerard Hoek

Long-term exposure to air pollution and ischemic stroke risk

Anna Oudin, Ulf Strömberg, Kristina Jakobsson, Emilie Stroh, Jonas Björk

Close relations between exhaust levels outside home and the prevalence of annoyance

David Olsson, Lars Modig, Roelinde Middelveld, Linda Ekerljung, Christer Jansson, Bertil Forsberg

SPATIAL DISTRIBUTION OF AIR POLLUTION BY NO<sub>2</sub> AND MORTALITY IN SMALL AREAS OF VALENCIA CITY, SPAIN

Marisa Estarlich, Ferran Ballester, Miguel Angel Martinez-Benito, Carmen Iñiguez, Enrique Mantilla, Andreu Nolasco

Evaluation of the Impact of Measurement Error from Instrument Precision and Spatial Variability on Risk Ratio Estimates in an Air Pollution Epidemiology Time-Series Analysis

Matthew Strickland, Gretchen Goldman, James Mulholland, Paige Tolbert

Components of Air Pollution are Associated with Lower Cognitive Function among Healthy Adults in Los Angeles

Nicole Gatto, Jan St. John, Myles Cockburn, Howard Hodis, Fred Lurmann, Wendy Mack

Are air pollution and temperature effects on hospital admissions modified by history of out-patient visits prior

to the admissions?

Nareerut Pudpong, Sam Pattenden

Specific chemical components of particulate matter and daily mortality in a Japanese urban city

Kayo Ueda, Hiroshi Nitta, Norio Ito, Akira Mizohata

The effect of air filtration on traffic related air pollution components in an occupied classroom along a major highway

Rob van Strien, Remon Jonker, Marieke Dijkema, Saskia van der Zee, Fred Woudenberg

Does one size fit all? The suitability of standard ozone exposure metric conversion ratios and implications for epidemiology.

Brooke Anderson, Michelle Bell

Nitrogen dioxide spatial variability in Rome (Italy): an application of the LUR model over a decade

Daniela Porta, Giulia Cesaroni, Chiara Badaloni, Massimo Stafoggia, Kees Meliefste, Francesco Forastiere, Carlo Alberto Perucci

Long-term exposure to ambient air pollution and mortality: design features of a new cohort study of Ontario adults

Paul Villeneuve, Mark Goldberg, Rick Burnett, Hong Le, Dore Zuccarini, Sonia Demers, Randall Martin

A Feasibility Study on Assessing Public Health Impacts of Cumulative Air Pollution Reduction Activities in a Small Geographic Area

Danelle Lobdell, Haluk Ozkaynak, Vlad Isakov, Joe Touma, Janet Burke, Marybeth Smuts

Community Assessment of Freeway Exposure and Health: Approach and Methods

Doug Brugge, Reisner Ellin, Edna Carrasco, Christina Hemphill, David Arond, Lyida Lowe, Baolian Kuang, Mkaya Mwamburi, Bart Laws, Wig Zamore, John Durant

Assessment of Air Pollution with Air Quality Indices in Szeged, Southern Hungary

László Makra, Tekla Eötvös

## **PS2.2 - Exposure assessment poster session**

**Thursday 27 August 2009, 13:00 - 14:00**

Field evaluation of the Ogawa diffusive sampler for NO<sub>2</sub>/NO<sub>x</sub> in a cold climate

Annika Hagenbjörk-Gustafsson, Kåre Eriksson, Bertil Forsberg

Kinetics of PCBs and other selected organochlorines in eastern Slovak children from birth until 45 months of age

Tomas Trnovec, Eva Sovcikova, Beata Drobna, Anton Kocan, Kinga Lancz, Sona Wimmerova, Lubica Palkovicova, Irva Hertz-Picciotto

A job and environmental exposure matrix (JEEM) for a

case-control study on prostate cancer

James Gomes, Linlu Zhao

Effects of Short-Term Exposure to Ozone on Alveolar Nitric Oxide

Santosh Dahgam, Lars Modig, David Olsson, Bertil Forsberg, Anna-Carin Olin

Perceived health effects of pesticides and herbicides used in tobacco cultivation in Nigeria

Olanrewaju Onigbogi, Oluwaseun Akinyemi

Comparison of the performances of land use regression modeling and dispersion modeling for estimating intra-urban air pollution concentrations

Rob Beelen, Marita Voogt, Jan Duyzer, Peter Zandveld, Gerard Hoek

Completeness and positional accuracy of two food outlet databases in a rural environment

Angela Liese, James Hibbert, Timothy Barnes, Dwayne Porter, Andrew Lawson

Levels of trihalomethanes and haloacetic acids in drinking water, spatio-temporal variations and exposure of the INMA-Guipuzcoa cohort (Spain).

Loreto Santa Marina, Mikel Ayerdi, Fernando Goñi, Jon Alvarez, Aitana Lertxundi, Mikel Basterrechea

AMBIENT PARTICULATE MATTER (PM<sub>2.5</sub>, PM<sub>10</sub>) AND ASSOCIATED METALS IN INDUSTRIALIZED URBAN AREAS OF GIPUZKOA (BASQUE COUNTRY, SPAIN)

Aitana Lertxundi, Maria Dolores Martínez, Mikel Ayerdi, Leonor Arranz, Jon Alvarez, Jesús Maria Ibarluzea

LEVELS OF CORD BLOOD LEAD IN PREGNANT WOMEN FROM THE INMA-GIPUZKOA COHORT (BASQUE COUNTRY; SPAIN)

Maria Dolores Martínez, Aitana Lertxundi, Loreto Santa Marina, Xabier Aginagalde, Elizabeth Blarduni, Ascension Amurrio

Biokinetic model for evaluation of effects of breast feeding and consecutive normal food intake on PCB plasma concentration-time profile in infants until 45 months of age

Tomas Trnovec, Kinga Lancz, Sona Wimmerova, Lubica Palkovicova, Ladislav Dedik, Martina Tvrdonova, Irva Hertz-Picciotto, Katarina Babinska

The Use of Personal Monitoring of Environmental Toxic Exposures of Children for Health Risk Assessment

Sergey Kuzmin, Elena Kuzmina, Vladimir Gurchich, Sergey Voronin, Larissa Privalova, Lily Zaripova, Galina Matyukhina

Overview of USEPA/NERL Cooperative Agreement Research Program on Air Pollution Exposure and Health  
Haluk Ozkaynak, Stefanie Sarnat, Jeremy Sarnat, Lianne Sheppard, Barbara Turpin

The evaluation for dust exposure on dental college students

Masahiro NAKAZA, Hiroyuki MIYAUCHI, Takitsugu SHINOZAKI, Shigeru TANAKA

FISH CONSUMPTION AND OMEGA-3 POLYUNSATURATED FATTY ACID INTAKE IN RELATION TO SELF-REPORTED PHYSICAL AND MENTAL HEALTH STATUS

Liisa Suominen-Taipale, Anu W Turunen, Timo Partonen, Satu Männistö, Pia K Verkasalo

Fish consumption in relation to different dietary characteristics

Anu W Turunen, Satu Männistö, Liisa Suominen-Taipale, Pia K Verkasalo

Daily mean temperature effects on the old people -Meta-analysis of the effects of temperature variation on mortality among the elderly with different latitudes and lags

Weiwei YU, Gerard FitzGerald, Kerrie Mengersen, Xiaochuan Pan, Shilu Tong

BLOOD AND HAIR LEAD LEVELS IN CHILDREN LIVING IN THE VICINITY OF A FERROALLOYPLANT IN THE GREAT SALVADOR AREA, BRAZIL

José Antonio Menezes-Filho, Ciro R. Paes

Variability of urinary metabolite levels of pesticides in turf applicators; implications for exposure measurement in prospective epidemiologic studies

Shelley Harris, Paul Villeneuve, James Mays, Charlene Crawley, Kirk Hurto

An Approach to Assessment of Long-Term Toxic Exposures through Food.

Sergey Kuzmin, Boris Katsnelson, Alexey Lavrentyev, Tatyana Mazhayeva, Larissa Privalova, Vladimir Gurvich, Olga Malykh, Sergey Voronin

## **PS2.2 - EMF poster session**

**Thursday 27 August 2009, 13:00 - 14:00**

The Public Perception of Electromagnetic Fields Risk in Taiwan

Yi-Ping Lin, Yen-Giun Lin, Tsun-Jen Cheng, Chang-Chuan Chan

Uncertainties in risk estimations of electromagnetic fields of overhead power lines

A. de Jong, J.P. van der Sluijs, J.A. Wardekker

Leukemia and proximity of residence to electric power lines in Sao Paulo City

Maria Cristina Haddad Martins, Ciliane Matilde Sollitto, Alfésio Luis Ferreira Braga, Paulo Hilário Nascimento Saldiva, Luiz Alberto Amador Pereira

Adverse Health Effect of Radiofrequency Exposures from Weather Radar System

Pi-I Li, How-Ran Guo

RESIDENTIAL EXPOSURE TO ELECTROMAGNETIC FIELDS AND RISK OF AMYOTROPHIC LATERAL SCLEROSIS IN REGGIO EMILIA, ITALY

Francesca Bonvicini, Marco Vinceti, Sara Fabbri, Sergio Teggi, Maurizio Poli, Paolo Zanichelli

RESIDENCE NEAR POWER LINES AND RISK OF CHILDHOOD LEUKEMIA IN TWO NORTHERN ITALY MUNICIPALITIES

Carlotta Malagoli, Marco Vinceti, Mariagiulia Calzari, Sara Fabbri, Sergio Teggi, Giovanni Palazzi, Paolo Paolucci, Maurizio Poli, Elena Ballotti, Barbara Notari, Maurizio Bruni

Non-specific physical symptoms in relation to the actual and perceived exposure to EMF (Electromagnetic Fields) and the underlying mechanisms. <sup>†</sup>Financed by the Netherlands

Organization for Health Research and Development (ZONMW)

Christos Baliatsas, Irene Van Kamp, Joris Yzermans, John Bolte, Erik Lebret

Evaluating the risk of leukemia and brain cancer deaths in relation to magnetic field exposure: a case-control study

Izabel Marcilio, Nelson Gouveia, Mateus Habermann, Marina Lopes, Prado Rogério, Souza Miriam

FREE RADICALS, LIPID PEROXIDATION AND IMMUNE RESPONSE IN EXPERIMENTAL EXPOSURE TO ELECTROMAGNETIC FIELDS

Didi Surcel, Dana Dabala, Csaba Szanto, Simona Miclaus, Mariana Botoc, Monica Hriscu

Hearing loss in occupationally exposed to radio frequencies (RF) and microwave (MW) non-ionising radiation.

Csaba Szanto

Exposure to magnetic fields generated by transmission lines in the metropolitan area of São Paulo, Brazil

Mateus Habermann, Nelson Gouveia, Izabel Marcilio, Prado Rogério, Souza Miriam, Lopes Marina

## **OS5.1 - Mercury/lead exposure and development - heavy metals oral session 2**

**Thursday 27 August 2009, 14:00 - 15:30**

A dynamic relationship between methyl mercury, inorganic mercury, and total mercury in umbilical cord blood

Ellen M Wells, Jeff Jarrett, Carl P Verdon, Kathleen L Caldwell, Ana Navas-Acien, Frank Witter, Lynn R Goldman

High dietary Zn intake mitigates the effect of Pb on height in a cohort of 12 to 60 month-old children in Mexico City

Alejandra Cantoral, Héctor Lamadrid-Figueroa, Martha Ma. Tellez-Rojo, Karen Peterson, Mauricio Hernández-Ávila, Howard Hu

Modelling children's exposure to lead in Hoboken, Belgium

Arnout Standaert, Mirja Van Holderbeke, Christa Cornelis, Griet Van Gestel, Amy De Sloovere, Rudi Torfs

Cumulative Lead Exposure and Risk of Tooth Loss in Men: The Normative Aging Study

Manish Arora, Jennifer Weuve, Marc G. Weisskopf, David Sparrow, Huiling Nie, Raul I. Garcia, Howard Hu

Fish consumption, seasonal variations, and impact on hair-mercury of subsistence riverside dwellers of the Rio Madeira (Amazon).

Ronaldo Oliveira, José Dórea, José Vicente Bernardi, Wanderley Bastos, Ronaldo Almeida, Angelo Manzatto

## **OS5.2 - Climate change and health, methodological issues - climate change oral session 4**

**Thursday 27 August 2009, 14:00 - 15:30**

Determinants characterizing adaptive capability for island-wide cardiovascular mortality at extreme temperatures in Taiwan

Pei Chih Wu, Jinn Guey Lay, Shih Chun Lung, Chuan Yao Lin, How Ran Guo, Zhi Long Huang, Chang Hung Chou, Huey Jen Su

The attributed effect of climate extremes, climate related epidemics or outbreaks on health is largely dependent on the choice of approach - a case study comparing four approaches for estimating excess hospital admissions during a record warm summer in south Sweden

Jocim Rocklöv, Bertil Forsberg

Development of Health-Relevant Indicators of Climate Change for Europe

Dafina Dalbokova, Michal Krzyzanowski, Bettina Menne, Franziska Matthies

Climate variability and dengue fever infections in Queensland, Australia

Wenbiao Hu, Archie Clements, Gail Williams, Shilu Tong

Health impacts of climate change: setting surveillance priorities

Mathilde Pascal, Dounia Bitar, Christophe Declercq, Loïc Josseran, Anne-Catherine Viso

## **OS5.3 - EMF: exposure assessment and health associations - oral session**

**Thursday 27 August 2009, 14:00 - 15:30**

Effects of radio frequency electromagnetic field exposure on sleep quality: a cross-sectional study

Evelyn Mohler, Patrizia Frei, Alfred Bürgi, Georg

*Neubauer, Axel Hettich, Jürg Fröhlich, Charlotte Braun-Fahländer, Matthias Egger, Martin Röösli*

Non-specific physical symptoms and distance to powerlines and base stations and underlying mechanisms

*Christos Baliatsas, Irene Van Kamp, John Bolte, Gert Kelfkens, Joris Yzermans, Erik Lebet*

Characterization of 24-h Exposure to Power Frequency Magnetic Field in Schoolchildren

*Pei-Chen Lee, Yi-Fen Lu, Chung-Yi Li*

Electromagnetic fields and acute lymphocytic leukemia in children living in the Metropolitan Area of Sao Paulo.

*Daniele Pelissari, Flávio Barbieri, Mário Pereira Filho, Leeka Kheifets, Victor Wunsch Filho*

The association between socioeconomic status and exposure to mobile telecommunication networks in children and adolescents

*Silke Thomas, Sabine Heinrich, Anja Kühnlein, Katja Radon*

## **OS5.4 - Air pollution, asthma and allergies - respiratory oral session 2**

**Thursday 27 August 2009, 14:00 - 15:30**

Air pollution and asthma control in the Epidemiological study on Genetics and Environment of Asthma (EGEA)

*Benedicte Jacquemin, Francine Kauffmann, Isabelle Pin, Nicole Le Moual, Jean Bousquet, Frederic Gormand, Jocelyne Just, Rachel Nadif, Christophe Pison, Pierre Scheinmann, Daniel Vervloet, Nino Kunzli, Valerie Siroux*

Increased Asthma Severity among Children Exposed to Outdoor NO<sub>2</sub>

*Kathleen Belanger, Melissa Hellenbrand, Janneane Gent, Elizabeth Triche, Theodore Holford, Brian Leaderer*

Dampness and moulds in relation to asthma symptoms in children: results from phase two of the International Study of Asthma and Allergies in Childhood (ISAAC Phase Two)

*Gudrun Weinmayr, Gisela Büchele, Jon Genuneit, Julian Crane, Carsten Flohr, David Strachan, Gary Wong*

Traffic-related air pollution and the development of asthma during the first 8 years of life - The PIAMA study  
*Ulrike Gehring, Michael Brauer, Paul Fischer, Johan C. de Jongste, Marjan Kerkhof, Marieke Oldenwening, Alet Wijga, Bert Brunekreef*

Exposure to air pollution during 1st year of life and development of allergic diseases up to 8 years of age

*Olena Gruzieva, Emma Nordling, Magnus Wickman, Göran Pershagen, Tom Bellander*

## **OS5.5 - Vulnerability to air pollution exposure due to comorbid conditions - diabetes oral session**

**Thursday 27 August 2009, 14:00 - 15:30**

Short-term Fine Particulate Matter Air Pollution and Vascular Reactivity in Diabetic Patients

*Barbara Hoffmann, Heike Luttmann-Gibson, Allison Cohen, Helen Suh, Brent Coull, Joel Schwartz, Osama Hamdy, Chris Foley, Peter Stone, Edward Horton, Diane Gold*

Diabetes Mellitus Modifies the Association between Particulate Air Pollution and Acute Ischemic Stroke: Results from the Registry of the Canadian Stroke Network

*Martin O'Donnell, Jiming Fang, Murray Mittleman, Moira Kapral, Gregory Wellenius*

The Relationship of Incident Diabetes with Chronic Particulate Matter Exposures

*Robin Puett, Jaime Hart, Angela Liese, Frank Hu, Joel Schwartz, Francine Laden*

Particulate Air Pollution, Metabolic Syndrome and Heart Rate Variability: the Multi-Ethnic Study of Atherosclerosis  
*Sung Kyun Park, Amy Auchincloss, Marie O'Neill, Ronald Prineas, Juan Correa, Jerry Keeler, Graham Barr, Joel Kaufman, Ana Diez Roux*

Long-term Traffic Related Air Pollution and Diabetes Prevalence in a Semi-rural Area in the Netherlands

*Marieke Dijkema, Sanne Mallant, Rob van Strien, Ulrike Gehring, Paul Fischer, Katja van den Hurk, Marjan Alsema, Giel Nijpels, Jacqueline Dekker, Gerard Hoek, Bert Brunekreef*

## **OS5.6 - Community exposure to industrial pollutants - exposure assessment oral session 2**

**Thursday 27 August 2009, 14:00 - 15:30**

Pleural Abnormalities and Community Exposure to Asbestos Contaminated Vermiculite

*Bruce Alexander, Jean Johnson, Katherine Raleigh, Jeffery Mandel, Rita Messing, Gurumurthy Ramachandran, John Adgate, Alan Williams*

Dietary cadmium exposure - a review of recent risk assessments

*Lars Järup, Agneta Åkesson*

Proximity to wood factories and respiratory health risks: the Viadana study

*Marta Rava, Alessandro Marcon, Lucia Cazzoletti, Paolo Ricci, Caterina Silocchi, Roberto de Marco*

Interrelationship between Exposure to Dioxins, Blood pressure, and Insulin Resistance in Metabolic Syndrome of non-diabetics in Taiwan Living near a Highly

Contaminated Area

Jung-Wei Chang, Horng-Yih Ou, Hsiu-Ling Chen, How-Ran Guo, Po-Chi Liao, Ching-Chang Lee

Association between Insulin Resistance and Co-exposure to Dioxins and Mercury in Taiwanese Living near a Deserted Pentachlorophenol and Chloralkali Factory

Jung-Wei Chang, Hsiu-Ling Chen, Huey-Jen Su, Po-Chi Liao, How-Ran Guo, Ching-Chang Lee

## **OS5.7 - Forest fire and flooding - oral session**

**Thursday 27 August 2009, 14:00 - 15:30**

Three measures of forest fire smoke exposure and their association with respiratory and cardiovascular physician visits and hospital admissions

Sarah B Henderson, Michael Brauer, Susan Kennedy, Ying MacNab

BIOMASS BURNING AS A DRIVER OF HUMAN EXPOSURE TO PARTICULATE MATTER IN THE AMAZON REGION.

Sandra Hacon, Cleber Carmo, Karla Longo, Saulo Freitas, Dennys Mourão, Eliane Ignotti, Rafael Mello, Paulo Artaxo

Forest fires and mortality in Athens, Greece

Antonis Analitis, Yannis Georgiadis, Klea Katsouyanni

The long-term mortality effects of flooding in England and Wales, 1994 to 2005

Ai Milojevic, Ben Armstrong, Bridget Butler, Emma O'Connell, Emma Hayes, Sari Kovats, Giovanni Leonardi, Virginia Murray, Paul Wilkinson

Higher temperature increased eye infections after flood in Taiwan.

Fung-Chang Sung, Ling-Ya Huang, Yu-Chun Wang, Trong-Neng Wu, Chung-Ming Liu, Chang-Hung Chou

## **OS5.8 - Occupational environment and health - oral session**

**Thursday 27 August 2009, 14:00 - 15:30**

Gender differences in occupational exposure assessment for a national surveillance project

Cheryl E. Peters, Paul A. Demers

Parkinson's disease, gender, and occupational exposure to armed forces environments

Karen Semchuk, Edgar Love, Punam Pahwa, Elise Matthews

CHARACTERIZATION OF JET FUEL INHALATION EXPOSURE AND URINARY METABOLITES IN U.S. AIR FORCE PERSONNEL

Emilia Rodrigues, Kian Merchant-Borna, Kristen Smith, Susan Proctor, Michael McClean

Urine BPA Level and the Risk of Male Sexual Dysfunction  
*DeKun Li, ZhiJun Zhou, Maohua Miao, Yonghua He, Dandan Qing, Tongjun Wu, JinTao Wang, Xiaoping Weng, Jeannette Ferber, Lisa Herrinton, Qianxi Zhu, ErSheng Gao, Wei Yuan*

Occupational History and Risk of Non-Hodgkin Lymphoma: The Multiethnic Cohort  
*Gertraud Maskarinec, Eva Erber, Unhee Lim, Laurence N. Kolonel*

## Coffee

Thursday 27 August 2009, 15:30 - 16:00

## OS6.1 - Symposium 30 - Climate change and health: European Research results

Thursday 27 August 2009, 16:00 - 17:30

Effect of high temperature and heat waves in European cities

*P. Michelozzi, D. D'Ippoliti, C. Marino, F. de'Donato, K. Katsouyanni, A. Analitis, A. Biggeri, M. Baccini, C.A. Perucci, B. Menne*

Investigating the synergistic effects between meteorological variables and air pollutants: results from the European PHEWE, EUROHEAT and CIRCE projects  
*Klea Katsouyanni, Antonis Analitis*

Tackling Climate Change and Infectious Diseases by Linking Environmental with Epidemiological Data  
*Jan Semenza*

INTARESE: Integrated assessment framework for estimating the health effects of climate change  
*R.S. Kovats, F. de Donato, M. Pascal, P. Michelozzi*

## OS6.2 - GIS and air pollution exposure assessment - oral session 2

Thursday 27 August 2009, 16:00 - 17:30

Assessment of Ambient Air Pollutant Measurement Error Associated with Instrument Precision and Spatial Heterogeneity

*Gretchen Goldman, James Mulholland, Matthew Strickland, Paige Tolbert*

A land use regression model for ultrafine particles in Amsterdam

*Gerard Hoek, Gerard Kos, Rob Beelen, Marieke Dijkema, Jeroen de Hartog, Bert Brunekreef, Saskia van der Zee*

Extrapolation of land-use regression models in time  
*Marloes Eeftens, Rob Beelen, Bert Brunekreef, Kees Meliefste, Gerard Hoek*

Within-neighborhood variation of particle pollution in developing country cities: mobile monitoring and GIS

analysis in four neighborhoods in Accra  
*Kathie L Dionisio, Michael S Rooney, Raphael E Arku, Ari B Friedman, Christopher Paciorek, Allison F Hughes, Jose Vallarino, Heather Carmichael, Samuel Agyei-Mensah, John D Spengler, Majid Ezzati*

Particle pollution in Accra neighborhoods: spatial and socioeconomic patterns

*Kathie L Dionisio, Raphael E Arku, Allison F Hughes, Jose Vallarino, Heather Carmichael, Ari B Friedman, Samuel Agyei-Mensah, John D Spengler, Majid Ezzati*

### **OS6.3 - Symposium 42 - Health effect from environmental and dietary exposure to metals - PHIME Project**

**Thursday 27 August 2009, 16:00 - 17:30**

Longitudinal cohort study of prenatal exposure to mercury in the Mediterranean region

*D'Anna Little, Fabio Barbone, Milena Horvat, Marika Mariuz, Darja Mazej, Sheena Nakou, Maria Parpinel, Oleg Petrovic, Igor Prpic, Katia Sofianou, Zdravko Spiric, Giorgio Tamburlini, Janja Tratnik, Francesca Valent*

Neurobehavioral effects of manganese exposure through inhalation and dietary intake in Italian adolescents

*Roberto Lucchini, Elisa Albin, Elza Bontempi, Neil Zimmerman, Giovanni Parrinello, Silvia Zoni, Serena Micheletti, Roberta Ferri, Filippo Donna, Annalisa Zacco, Laura Borgese, Chiara Nardoni, Fiorella Tagliani*

Hearing and posture of primary school children from industrial area of Upper Silesia, Poland

*Krystyna Pawlas, Natalia Pawlas, Dorota Kus, Agata Kowalska, Elzbieta Olewinska*

Exposure and toxic effects of elemental mercury in gold mining activities

*Raul Harari, Ulf Strömberg, Karin Broberg, Lars Gerhardsson, Karin Engström, Chunying Chen, Staffan Skerfving*

Introduction on the PHIME project

*S. Skerfving*

### **OS6.4 - Symposium 41 - Non-ionizing radiation and health**

**Thursday 27 August 2009, 16:00 - 17:30**

Ongoing mobile phone research studies and latest findings where available

*Aslak Harbo Poulsen, Joachim Schüz*

Ongoing RF research studies and latest findings where available, German cross sectional studies, Bavarian studies, Swiss study, UK base station etc

*Katja Radon, Silke Thomas, Tobias Weinmann, Anja Kühnlein, Sabine Heinrich*

A critical evaluation of exposure surrogates in RF-EMF

research: recommendations for improving exposure assessment

Martin Rösli, Patrizia Frei, Evelyn Mohler

Mobile phone use and brain tumors - a review of the epidemiological evidence

Anders Ahlbom, Maria Feychting, Adele Green, Leeka Kheifets, David Savitz, Anthony Swerdlow

## **OS6.5 - Air pollution and pregnancy/early life outcomes - oral session 2**

**Thursday 27 August 2009, 16:00 - 17:30**

Weekly levels of air pollution during pregnancy and risk of low birth weight

Peter Rudnai, Mihály János Varró, Annamaria Mácsik, Eszter Szabó, Eva Vaskovi, Marta Szalkai, Judit Paller, Laszlone Horváth, Laszlo Bujdosó, Klara Selyem-Frankó, Laszlone Bella, Hilda Solti

Exposure assessment of newborn babies near incinerators: a geographical approach

Andrea Ranzi, Claudio Sartini, Laura Erspamer, Mauro Rossi, Silvia Candela, Vanes Poluzzi, Paola Angelini, Paolo Lauriola, Francesco Forastiere, Carlo Alberto Perucci

Maternal Exposure to NO<sub>2</sub> during pregnancy and fetal growth: comparison of two exposure models

Johanna Lepeule, Fabrice Caini, Julien Galineau, Agnès Hulin, Nathalie Marquis, Aline Bohet, Olivier Thiébauges, Valérie Goua, Monique Kaminski, Marie-Aline Charles, Rémy Slama

Delivery hospitalization complicated by preeclampsia in relation to ambient particulate matter exposure prior to admission in the United States, 1999-2005

Pauline Mendola, Rashmi Tandon, Jennifer Parker, Nataliya Kravets, Andrea MacKay

Residential traffic and pregnancy-related outcomes in mother and child: The Generation R Study

Edith H. van den Hooven, Vincent W.V. Jaddoe, Yvonne de Kluizenaar, Albert Hofman, Eric A.P. Steegers, Henk M.E. Miedema, Frank H. Pierik

## **OS6.6 - Symposium 40 - Epidemiology informs policy-making – in what direction are current projects and processes leading us?**

**Thursday 27 August 2009, 16:00 - 17:30**

Recent developments in the science-policy interface in environment and health in Europe

Marco Martuzzi

Linking Policy to Environmental Health Assessment

Eva Kunseler, Leendert van Bree, Anne Knol

On science-policy interface - Results from synthetic analysis of five EC-funded projects, part I: "Assessment"

issues

Rainer Fehr, Helmut Brand

On science-policy interface - Results from synthetic analysis of five EC-funded projects, part II: "Policy development" and "assurance" issues

Rainer Fehr, Helmut Brand

The contribution of large European research consortia

Fintan Hurley, David Briggs, George Morris

EVIDENCE FOR THE ASSESSMENT OF LONG-TERM ENVIRONMENT & HEALTH POLICIES

Paul Wilkinson

## **OS6.7 - Soil and health - oral session**

**Thursday 27 August 2009, 16:00 - 17:30**

Uptake of Persistent Organic Pollutants by Vegetables Grown in Contaminated Soil in Cluj District, Romania

Melinda-Haydee Kovacs, Dumitru Ristoiu

High manganese levels in food crops cultivated in the vicinity of ferro-manganese alloy plant in the Great Salvador Area, Brazil

Cristina P.P.P.S. Soares, José A. Menezes-Filho, Maria S. Miranda

Modeling human exposure to cadmium and arsenic in a zinc smelter area - a Belgian case study

Arnout Standaert, Mirja Van Holderbeke, Christa Cornelis, Jeroen Van Deun, Karen Van Campenhout, Griet Van Gestel, Dirk Wildemeersch, Vera Nelen, Liesbeth Bruckers, Rudi Torfs

Soil health and food production: the case of corn crop yields in Zapopan, México

Arturo Curiel-Ballesteros

Zinc deficiency in soils, crops and food in Mali and options for remediation

Aly Barry, Birgitta Jacks, Gunnar Jacks

## **OS6.8 - Differential vulnerability to environmental exposures - oral session**

**Thursday 27 August 2009, 16:00 - 17:30**

Association between air pollution and stroke mortality differs according to Socioeconomic Position

Benedicte Jacquemin, Victor Miranda, Washington Leite Junger, Magali Hurtado, Patricio Solis, Joel Schwartz, Isabelle Romieu

Social Stress and Susceptibility to Concentrated Particulate Air Pollution (CAPs) in Rats

Jane Clougherty, Christina Rossi, Joy Lawrence, Mark Long, Edgar Diaz, Robert Lim, Bruce McEwen, Petros Koutrakis, John Godleski

Susceptibility factors to ozone-related mortality - a

population-based case-crossover analysis  
*Massimo Stafoggia, Annunziata Faustini, Giovanna Berti,  
Gabriele Accetta, Luigi Bisanti, Achille Cernigliaro,  
Claudia Galassi, Sandra Mallone, Barbara Pacelli, Carlo  
Perucci, Maria Serinelli, Roberta Tessari, Mariangela  
Vigotti, Francesco Forastiere, EPIAIR Group*

Long-term exposure to traffic-related air pollution and  
mild cognitive impairment in the elderly  
*Ulrich Ranft, Tamara Schikowski, Dorothee Sugiri, Jean  
Krutmann, Ursula Kraemer*

Double Burden of Deprivation and High Concentrations of  
Ambient Air Pollution at the Neighbourhood scale in  
Montreal, Canada  
*Dan Crouse, Mark Goldberg, Nancy Ross*

**ISEE General Members' Meeting**  
Thursday 27 August 2009, 17:45 - 19:15

## Friday 28 August 2009

### Training session

Friday 28 August 2009, 07:30 - 08:30

### OS7.1 - Food Contaminants & metals - heavy metals oral session 4

Friday 28 August 2009, 08:30 - 10:00

Fish consumption in Vieques, Puerto Rico: A possible source of inorganic arsenic exposure

*Imar Mansilla-Rivera, Carlos J. Rodríguez-Sierra*

Health impact assessment of arsenic in the environment and the food chain in Europe

*Dimosthenis Sarigiannis, Peter Fantke, Balendra Tiruchittampalam, Ulrike Kummer, Alberto Gotti, Oleg Travnikov, Johan Bierkens, Rudi Torfs, Flavia Camilleri*

ENNS: The French Nutrition & Health Survey. Blood Lead Level in the French Adult Population

*Gregoire FALQ, Abdelkrim ZEGHNOUN, Mathilde PASCAL, Michel VERNAY, Robert GARNIER, Didier OLICHON, Katia CASTETBON, Philippe BRETIN, Nadine FRÉRY*

ASSOCIATION BETWEEN HIGH SELENIUM INTAKE AND SUBSEQUENT INCREASED RISK OF TYPE 2 DIABETES IN AN ITALIAN POPULATION

*Marco Vinceti, Saverio Stranges, Sabina Sieri, Sara Grioni, Carlotta Malagoli, Paola Muti, Franco Berrino, Vittorio Krogh*

Miss Marple goes to the Amazon: uncovering an unknown source of lead exposure through food consumption

*Donna Mergler, Fernando Barbosa Jr, Myriam Filion, Mélanie Lemire, Jairo Lisboa Rodrigues, Carlos Passos, Aline Philibert, Jean-Rémy Guimarães*

### OS7.2 - Organic pollutants - oral session

Friday 28 August 2009, 08:30 - 10:00

Air pollution by pesticides and maternal urinary biomarkers in association with head circumference at birth

*Cecile CHEVRIER, Claire PETIT, Christine MONFORT, Ronan GARLANTEZEC, Florence ROUGET, Gwendolina LIMON, Gaël DURAND, Sylvaine CORDIER*

Investigation of the Immuno-modulatory Effects of Aflatoxin B<sub>1</sub>, B<sub>2</sub> and G<sub>1</sub>

*Johanna Bruneau, Christine Loscher, Richard O'Kennedy*

Diet contributes significantly to the body burden of PBDEs in the general U.S. population  
*Alicia Fraser, Michael McClean, Thomas Webster*

Pesticide exposure of pregnant women in Guadeloupe: ability of a food frequency questionnaire to estimate blood concentration of chlordecone  
*Laurence Guldner, Luc Multigner, Fanny Heraud, Christine Monfort, Jean Pierre Thomé, Arnaud Giusti, Philippe Kadhel, Sylvaine Cordier*

Reproductive health effects due to environmental pesticide exposure amongst boys in the Western Cape, South Africa  
*Mohamed Aqiel Dalvie, Rene English*

### **OS7.3 - Symposium 14 - The health impact of the food economy in poor populations**

**Friday 28 August 2009, 08:30 - 10:00**

Food security, nutrition and health  
*Stuart Gillespie*

Rural livelihoods, living standards and health  
*Martin Prowse*

### **OS7.4 - Symposium 36 - Noise and Health**

**Friday 28 August 2009, 08:30 - 10:00**

Traffic noise and physicians' prescriptions of drugs for specific diseases in the urban area of Rome  
*Carla Ancona, Chiara Badaloni, Giulia Cesaroni, Ursula Kirchmayer, Valeria Belleudi, Francesco Forastiere, Carlo Perucci*

Aircraft noise exposure and use of medication  
*Federica Vigna-Taglianti, Sarah Floud, Anna Hansell, Danny Houthuijs, Wolfgang Babisch, Alexandros Haralabidis, Federica Mathis, Goran Pershagen, Oscar Breugelmans, Jenny Selander, Gosta Bluhm, Maria Chiara Antoniotti, Ennio Cadum, Klea Katsouyanni, Lars Jarup*

Transport noise and incidence of cardiovascular disease  
*Göran Pershagen*

The HYENA Project: Assessment of acute effects on blood pressure after short-term changes in noise levels.  
*Konstantina Dimakopoulou, Klea Katsouyanni*

### **OS7.5 - The effect of PBDE and PCBs on children - children's health oral session 3**

**Friday 28 August 2009, 08:30 - 10:00**

Associations Between Maternal PBDE Serum

Concentrations and Child Neurodevelopment in the CHAMACOS Cohort.

Brenda Eskenazi, Amy Marks, Jonathan Chevrier, Kim Harley, Asa Bradman, Andreas Sjodin

Pre- and postnatal PCB concentrations and child behavior at age 45 months

Todd Jusko, Eva Sovcikova, Beata Drobna, Lubica Palkovicova, Tomas Trnovec, Irva Hertz-Picciotto

Associations Between Maternal PBDE Serum Concentrations and Birth Weight and Duration of Gestation.

Kim Harley, Jonathan Chevrier, Asa Bradman, Andreas Sjodin, Brenda Eskenazi

Maternal PBDE Exposure and Time to Pregnancy

Kim Harley, Amy Marks, Jonathan Chevrier, Andreas Sjodin, Asa Bradman, Brenda Eskenazi

Impairment of Infant Behaviour by Polychlorinated Biphenyls (PCBs): Physiologically-Based Pharmacokinetic (PBPK) Modeling Reveals a Critical Time Window for Postnatal Exposure

Marc-André Verner, Pierrich Plusquellec, Gina Muckle, Pierre Ayotte, Éric Dewailly, Joseph L. Jacobson, Sandra W. Jacobson, Michel Charbonneau, Sami Haddad

## **OS7.6 - Toxicity of food contaminants and home products in childhood - exposure assessment oral session 3**

**Friday 28 August 2009, 08:30 - 10:00**

Assessing children's dietary pesticide exposures - pesticide residues measured in 24-hour duplicate food samples

Chensheng Lu, Frank Schenck, Jon Wong

Potential sources of phthalate exposure in a Vancouver, BC birth cohort at three months of age

Tim Takaro, Ryan Allen, Roxanne Rouseau, Michael Brauer, James Scott, Jeff Brook, Stuart Turvey

Personal Care Product Use and Endocrine Disrupting Chemicals in Urban Minority Children

Susan Teitelbaum, Mary Wolff, Marissa Hauptman, Maida Galvez, Barbara Brenner, Xiaoyun Ye, Manori Silva, Antonia Calafat

The tolerable daily intake of melamine for young children

I-Jen Wang, Chang-Chuan Chan, Pau-Chung Chen, Giovanni Leonardi, Yu-Nian Wu, Shoei-Loong Lin, Chu-Chih Chen, Kuen-Yuh Wu

Investigation of nephrolithiasis in children with tainted Chinese dairy product consumption in Taiwan

I-Jen Wang, Yu-Nian Wu, Wen-Chiuo Wu, Giovanni Leonardi, Yen-Jen Sung, Shuei-Liong Lin, Tien-Jen

*Lin, Kuen-Yuh Wu, Wei-Chih Cheng, Pau-Chung Chen, Chang-Chuan Chan, Kung-Chang Hwang*

### **OS7.7 - Symposium 16 - Similarities and contrasts in the social and environmental determinants of weather-related mortality: heat versus cold**

**Friday 28 August 2009, 08:30 - 10:00**

Similarities and contrasts in the social and environmental determinants of weather-related mortality: heat versus cold

*Sari Kovats, Tom Kosatsky*

On changes in susceptibility to ambient temperature, long-term mortality displacement and age at death

*Joacim Rocklöv, Bertil Forsberg*

Influenza epidemics, seasonality, and the effects of cold weather on cardiovascular mortality

*Stephanie von Klot, Antonella Zanobetti, Joel Schwartz*

Estimating future heat related mortality as a function of climate change

*M. Baccini, A. Biggeri*

### **OS7.8 - Outdoor air pollution - oral session**

**Friday 28 August 2009, 08:30 - 10:00**

Association between Short term variations in Atmospheric pollutants' levels and the couples' Fecundability

*Remy Slama, Sebastien Bottagisi, Johanna Lepeule, Ivo Solansky, Radim Sram*

Urban Air Pollution and Acute Otitis Media in a Population-Based Birth Cohort

*Elaina MacIntyre, Catherine Karr, Mieke Koehoorn, Paul Demers, Lillian Tamburic, Cornel Lencar, Michael Brauer*

Effect of Air Pollution Control on Mortality in County Cork, Ireland

*David Rich, Prethibha George, Patrick Goodman, Pamela Ohman-Strickland, Luke Clancy, Tanya Kotlov, Douglas Dockery*

Short term effects of nitrogen dioxide exposure on mortality and susceptibility factors

*Monica Chiusolo, Ennio Cadum, Claudia Galassi, Massimo Stafoggia, Giovanna Berti, Annunziata Faustini, Luigi Bisanti, Maria Angela Vigotti, Patrizia Dessì, Achille Cernigliano, Sandra Mallone, Barbara Pacelli, Sante Minerba, Roberta Tessari, Francesco Forastiere*

Association of air pollution with sleep disordered breathing

*Antonella Zanobetti, Diane Gold, Susan Redline, Joel Schwartz, Dennis Rosen, Sanjay Patel, George*

O'Connor, Michael Lebowitz, Brent Coull

## Coffee

Friday 28 August 2009, 10:00 - 10:30

## OS8.1 - Heavy metal exposure in children - heavy metals oral session 3

Friday 28 August 2009, 10:30 - 12:00

Blood Lead Levels of Children and its trend in China  
*Kangmin He, Shunqin Wang, Jinliang Zhang*

Exposure To Heavy Metals In Children Working At A  
Waste Disposal Site, And In Reference Children From  
Managua, Nicaragua  
*Steven Cuadra, Thomas Lundh, Kristina Jakobsson*

Mercury in vaccines and autism: What do we know?  
What don't we know?  
*Irva Hertz-Picciotto, Isaac Pessah*

PM<sub>2.5</sub> and heavy metals outdoor concentrations at a  
school near to an industrial zone in Cali, Colombia  
*Nathalie Abrahams, Ana Lasso, Paola Filigrana, Juan  
Pablo Silva, Fabián Méndez*

Mercury Concentrations in First Hair Cuts as a  
Predictor for Autism  
*Stephen McKean, Peter Green, Robin Hansen, Irva  
Hertz-Picciotto*

## OS8.2 - Symposium 18 - The influence of diet on health effects of arsenic exposure from drinking water

Friday 28 August 2009, 10:30 - 12:00

Arsenic Exposure and Cardiovascular Mortality -  
Influence of Diet, Smoking and BMI  
*Yu Chen, Joseph Graziano, Faruque Parvez, Tariqul  
Islam, Rabiul Hasan, Rakib-Uz Zaman, Alauddin  
Ahmed, Vesna Slavkovich, Habibul Ahsan*

Arsenic metabolism and toxicity in early life -  
interactions with nutrition  
*Marie Vahter, Barbro Nermell, Jena Hamadani,  
Rubhana Raqib*

The Importance of Arsenic from Diet Sources to  
Studies of Arsenic Exposure at Low-to-moderate  
Levels  
*Ana Navas-Acien*

The influence of selenium on genomic methylation of  
leukocyte DNA, blood and urinary arsenic  
concentrations and arsenic metabolites in Bangladeshi  
adults.

*J. Richard Pilsner, Xinhua Liu, Habibul Ahsan, Vesna  
Ilievski, Vesna Slavkovich, Diane Levy, Pamela Factor-  
Litvak, Joseph Graziano, Mary Gamble*

### **OS8.3 - Joint effects of noise and air pollution - oral session**

**Friday 28 August 2009, 10:30 - 12:00**

Associations of reported environmental noise and respiratory symptoms in the National Childrens' Respiratory Survey (OGYELF), Hungary, 2005  
*Mihály János Varró, Renáta Szentmihályi, Anna Páldy, Mária Bényi, Gizella Nádor, János Martin, Gergely Tulipánt, Annamária Mácsik, Eszter Szabó, Péter Rudnai*

Long-Term Exposure to Road Traffic Noise and Myocardial Infarction  
*Jenny Selander, Mats E Nilsson, Gösta Bluhm, Mats Rosenlund, Magnus Lindqvist, Gun Nise, Göran Pershagen*

Association of Heart Rate Variability with average exposure to NO2 and Noise in a Population-based sample of adults  
*Emmanuel Schaffner, Denise Felber Dietrich, Christian Schindler, LJ Sally Liu, Julia Dratva, Jean-Claude Barthelemy, Jenni Keel, Margaret W Gerbase, Thierry Rochat, Frederic Roche, Nicole Probst Hensch, Pierre-Olivier Bridevaux, Diane R Gold, Joel Schwartz, Nino Kuenzli, Jean-Michel Gaspoz*

Association of traffic and railway noise with blood pressure in the Swiss Air Pollution And Lung Disease In Adults cohort (SAPALDIA)  
*Julia Dratva, Dirk Keidel, Christian Schindler, Denise Felber Dietrich, Jean-Michel Gazpoz, Jenny Keel, Sally Liu, Nino Kuenzli, Thierry Rochat, Elisabeth Zemp, Margaret Gerbase*

Noise and cardiovascular mortality in Switzerland - a cohort study  
*Anke Huss, Adrian Spoerri, Matthias Egger, Martin Röösli*

### **OS8.4 - Symposium 9 - Health Impact of Coastal Oil Spill**

**Friday 28 August 2009, 10:30 - 12:00**

Long-term health effects of the Prestige Oil Spill (Galicia, Spain)  
*Jan-Paul Zock, Gema Rodríguez-Trigo, Emma Rodríguez-Rodríguez, Francisco Pozo-Rodríguez, Federico P Gómez, Carme Fuster, Gemma Castaño-Vinyals, Josep M Antó, Joan Albert Barberà*

The Exxon Valdez Oil Spill And Its Impact On Community And Ecology  
*Riki Ott*

Scientific basis for the contingency planning against coastal oil spill  
*Hae-Kwan Cheong, Young Min Kim, Jong Ho Kim,*

*Jong Hun Kim, Kumsook Ko, Mina Ha*

Global aspects and health effects of oil tanker accidents

*Gema Rodriguez-Trigo*

Acute health effects of Hebei Spirit oil spill

*Mina Ha, Hojang Kwon, Eun-Hee Ha, Yun-Chul Hong, Jong Seong Lee, Bong Chul Chung, Jeongae Lee, Eun-Jung Kim, Yeyong Choi, Seung-Min Lee, Hae-Kwan Cheong, Jongil Hur, Woo-Chul Jeong*

## **OS8.5 - Cancer mechanisms - oral session**

**Friday 28 August 2009, 10:30 - 12:00**

Mechanistic full chain approach for ETS

carcinogenicity impact assessment in the EU

*Dimosthenis Sarigiannis, Spyridon Karakitsios, Alberto Gotti*

Lung cancer in chrysotile asbestos workers: Analyses based on the two-stage clonal expansion model

*David Richardson*

Evaluation of alternative exposure metrics for assessing mortality risk from lung cancer and mesothelioma among an occupational cohort exposed to amphibole asbestos from vermiculite mining operations in Libby, Montana

*Thomas Bateson, Leonid Kopylev, Patricia Sullivan, Glinda Cooper, Lisa Vinikoor, Danielle De Voney*

Acute Radiation Exposure and Risk of Second Primary Cancers in Atomic Bomb Survivors

*Erin Semmens, Jean McDougall, Eric Grant, Nobuo Nishi, Kazunori Kodama, Akihiko Suyama, Kotaro Ozasa, Scott Davis, Kenneth J. Kopecky, Christopher Li*

SEASONAL VARIATION IN BIRTH AND DIAGNOSIS OF CANCER IN CHILDREN AND YOUNG PEOPLE IN NORTHERN ENGLAND, 1968-2005

*Richard McNally, Nermine Basta, Peter James, Sir Alan Craft*

## **OS8.6 - Effects of temperature - oral session**

**Friday 28 August 2009, 10:30 - 12:00**

Temperature effects on the hydration status

*Youn-hee Lim, Yoonhee Kim, Ho Kim, Yun-Chul Hong, Seyoung Oh, Minsun Park*

Heat related mortality among high risk elderly in Rome. Summer 2008.

*Patrizia Schifano, Giovanna Cappai, Claudia Marino, Annamaria Bargagli, Paola Michelozzi, Manuela De Sario, Michela Leone, Carlo Alberto Perucci*

A study of heat-wave related mortality in 107 United States communities

Brooke Anderson, Michelle Bell

Which days of hot weather are considered dangerous by heat-health watch warning systems?: A comparison of the predictive capacity of different systems

Shakoor Hajat, Scott Sheridan, Michael Allen, Mathilde Pascal, Karine Laaidi, Aurelio Tobias, Abderrahmane Yagouti, Ugis Beckis, Denis Bourque, Ben Armstrong, Tom Kosatsky

Diurnal apparent temperature range and socioeconomic vulnerability in Seoul, Korea

Youn-Hee Lim, Aekyung Park, Ho Kim

### **OS8.7 - Symposium 19 - The impact of aflatoxins on global health: new developments in measuring human exposure and assessing human health effects**

**Friday 28 August 2009, 10:30 - 12:00**

Enabling Comparison of Aflatoxin B1 Exposure in Different Study Populations Using Different Measurement Techniques

Leslie McCoy, Rosemary Schleicher, Carissa Powers

Aflatoxicosis and Food Contamination: Food Monitoring in High Risk Populations

Lauren Lewis, Yanique Redwood, Michael McGeehin

Socio-demographic, health and clinical predictors of high aflatoxin levels in HIV positive Ghanaians

Pauline Jolly, Yi Jiang, Peter Preko, Jia-Sheng Wang, William Ellis, Timothy Phillips, Jonathan Williams, Patricia Bessler, Joseph Baidoo, Jonathan Stiles

### **OS8.8 - Outdoor air pollution transport sources - oral session**

**Friday 28 August 2009, 10:30 - 12:00**

Commuters' air pollution exposure is affected by vehicle and fuel type

Moniek Zuurbier, Gerard Hoek, Marieke Oldenwening, Kees Meliefste, Peter Van den Hazel, Bert Brunekreef

Three Different Models to Estimate Long-term Exposure to Traffic Related Air Pollution in Amsterdam, the Netherlands

Marieke Dijkema, Ulrike Gehring, Rob van Strien, Saskia van der Zee, Paul Fischer, Gerard Hoek, Bert Brunekreef

Traffic exposure and mortality in Rome: results of a large cohort study

Giulia Cesaroni, Chiara Badaloni, Francesco Forastiere, Carlo A Perucci

Traffic related air pollution and respiratory health in Sweden: the Roadside study

Saskia M. Willers, Charlotta Eriksson, Lars Gidhagen, Mats E. Nilsson, Göran Pershagen, Tom Bellander

Traffic Related Air Pollution Associated with Mild Stroke Hospital Admissions in Copenhagen, Denmark  
Zorana Jovanovic Andersen, Tom Skyhøj Olsen, Klaus Kaae Andersen, Steffen Loft, Matthias Ketzel, Ole Raaschou-Nielsen

### **PS3.1 - Methodology poster session**

**Friday 28 August 2009, 12:00 - 13:00**

Bounding exposure misclassification with probability bounds analysis: relaxing assumptions of independence in food frequency questionnaire responses and behavior

John Minnery

Sensitivity of Regional Health Effect Estimates to Different Approaches to Estimating Long-term PM2.5 Exposure

Sun-Young Kim, Lianne Sheppard, Sverre Vedal

A flexible modelling framework to investigate the delayed effects of environmental stressors

Antonio Gasparini, Ben Armstrong

Systematic observations of health damaging factors in informal neighbourhoods in Aleppo, Syria-a pilot study  
Balsam Ahmad, Fouad Fouad, Samer Rastam, Tanja Pless-Mulloli

Statistical explorations of possible effects from a partial mediating variable - comparisons between OLS and SEM methods with simulated data

Peizhong Peter Wang

A TOBIT MODEL TO ADDRESS THE INSTRUMENTAL LIMIT OF DETECTION IN THE STUDY OF BLOOD CADMIUM AND PERIPHERAL ARTERIAL DISEASE IN US ADULTS

Maria Tellez-Plaza, Ana Navas-Acien, Ciprian Crainiceanu, Eliseo Guallar

Material Deprivation Index for Confounding Control in Environmental Epidemiology in Italy

Laura Grisotto, Dolores Catelan, Roberta Pirastu, Roberto Pasetto, Annibale Biggeri

Use of Errors-in-Variables Regression Models for Studies with K-X Ray Fluorescence Bone Lead Measurements

Hector Lamadrid-Figueroa, Martha M Tellez-Rojo, Gustavo Angeles, Mauricio Hernandez-Avila, Howard Hu

Engaging a hard-to-reach population in environmental epidemiology research: Sampling and recruitment of California's hired farm workers

Marc Schenker, Maria Stoecklin-Marois, Tamara

*Hennessy-Burt*

Comparison of Estimated Effects of Air Pollution on Human Mortality Calculated Via SPlus and SAS  
*Rebecca Klemm, Ron Wyzga, Eddie Thomas*

Work stress among staff at a medical center in southern Taiwan. Chien-Yuan Huang<sup>1,2</sup>, Shih-Bin Su<sup>1,2</sup>, How-Ran Guo<sup>2</sup>  
<sup>1</sup>Tainan Science Park Clinic, Chi-Mei Medical Center, Tainan, Taiwan<sup>2</sup>Department of Environmental and Occupational Health, National Cheng Kung University, Tainan, Taiwan.  
*Chien-Yuan Huang, Shih-Bin Su, How-Ran Guo*

Methodology for Integral Assessment of Physical Population Health  
*Alla Gorova, Iryna Klimkina, Yuriy Buchavy*

Cohort study of petrochemical workers in Gela polluted site  
*Roberto Pasetto, Amerigo Zona, Roberta Pirastu, Achille Cernigliaro, Pietro Comba*

Comparison of two cross-sectional studies on health status with different response-rate  
*Hana Slachtova, Hana Tomaskova, Anna Splichalova*

### **PS3.1 - Organic pollutants poster session**

**Friday 28 August 2009, 12:00 - 13:00**

Breast cancer in Brazil: time trend and correlation with pesticide consumption  
*Raphael Guimarães, Camila Muzi, Livia Santiago, Leticia Melo, Gina Torres, Armando Meyer*

The impact of agricultural pesticide use on the prevalence of perinatal outcomes in Brazil  
*Raphael Guimarães, Carmen Asmus, Armando Meyer*

Maternal Obesity and Dietary Intake of Polycyclic Aromatic Hydrocarbons during Pregnancy Jointly Affect Birth Weight  
*Hyunok Choi, Frederica Perera*

Pesticides in dust from homes in an agricultural community: changes over time among repeated samples  
*Martha Harnly, Asa Bradman, Rosemary Castorina, Brenda Eskenazi*

Dioxin levels and congener profiles in free-range and caged chicken eggs of Taiwan  
*Jing-Fang Hsu, Chun Chen, Pao-Chi Liao*

Surveillance of environmental pesticide exposure in Canada  
*Nichole Garzia, Alejandro Cervantes-Larios, Anne-Marie Nicol, Paul A. Demers*

Fish consumption in an area with high incidence of birth defects in Cali, Colombia

Yoseth Ariza-Araújo, Genny Martínez, Miguel Peña, Fabián Méndez

Insecticide use by sheep farmers in Great Britain for the control of blowfly strike

Betty Bisdorff, Richard Wall

Bystander agricultural pesticides exposure and the risk of adverse reproductive outcomes: A review of the literature

Adeleh Shiranji, Mark Nieuwenhuijsen, Danielle Vienneau

Association between organophosphates pesticides exposure and reproductive hormone profile in male greenhouse workers

Marina Lacasaña, Clemente Aguilar-Garduño, Julia Blanco-Muñoz, Miguel Rodríguez-Barranco, Esperanza de Santiago, Susana Bassol, Mariano E Cebrian

Local herbs in neutralization and elimination of organochlorine pesticides (OCPs) from human body

Rakhmanbek Toichuev, Baktygul Abdyraeva

Contributions by the University of Guadalajara's Masters' Program on Environmental Health with respect to research on corn farming and processing technologies

María Guadalupe Garibay-Chávez, Patricia Landeros-Ramírez, Rolando A. Payán-Rentería, Raúl Rangel-Ascencio

Food contamination and human exposure to endocrine disrupting compounds from food packaging

Jane Muncke

Sanitarian and Epidemiological Surveillance in Clenbuterol Outbreaks in Polluted Food Consumption by People in Michoacan State, Mexico during 2004 to 2008.

Alejandro Molina-Garcia, Laura Hurtado-Salinas, Gerardo Mendoza-Ramírez, Laura Huanosto-Gutierrez, Josefina Martínez-Ponce, Victor Rene Andrade-Chavez, Roman Armando Luna-Escalante

### **PS3.1 - Risk communication and policy poster session**

**Friday 28 August 2009, 12:00 - 13:00**

The Risk Perception of Nanotechnology in Taiwanese General Population, Workers, and Experts

Tsun-Jen Cheng, Yi-Ping Lin, Ya-Ru Li, Guei-Tang Chou

Food Access around the Home and Growth in the Body Mass Index of Children aged 10-18 years: A Longitudinal Cohort Study

Michael Jerrett, Rob McConnell, Jennifer Wolch, Roger Chang, Kiros Berhane

Impacts on health and social environment among people living near to a solid waste disposal site  
Janeth Mosquera-Becerra, Olga Gómez-Gutiérrez,  
Fabián Méndez

German Surveys on Environment and Health for Children provides data for Training Programs on Environmental Health for Health Care Providers  
Stephan Boese-O'Reilly, Julia Hellmann, Thomas Lob-Corzilius, Erik Petersen, Inga Wermuth

Environmental Health and Environmental Justice - Examples of Good Practice from Non Governmental Organisations (NGOs)  
Agnes Maria Alteneder, Thomas Hartmann, Erik Petersen

Social Inequality in Perceived Air Quality using Combination of Individual-Based and Area-Based Socioeconomic Characteristics in Seoul, Korea  
Myounghee Kim, Ho Kim

Frame work for the Monitoring of Exposure to Environmental Pollutants and Health Effect of Inhabitants in Major Industrial Complexes in Korea  
Dae-Seon Kim, Seung-Do Yu, Seungchul Ahn

DIOXINS LEGISLATIVE AND HEALTH INSURANCE IN MOLDOVA  
Dionisie Buburuz, Valentin Bobeica, Victor Plingau,  
Regina Fasola

The Environmental Impact of Dietary Choice and Agriculture in California  
Hal Marlow

FIRST DATA ABOUT A WEIGHT CONDITIONS AND PHYSICAL ACTIVITY STUDY IN CATANIA STUDENTS.  
Margherita Ferrante, Maria Fiore, Angelo Battaglia,  
Roberta Biasi, Luca Leon, Gina Enza Sciacca, Roberto Furnari, Salvatore Sciacca, Giovanni Battista Modonutti

Aphekom- The Science/Decision Interface in Air Quality Policy: Lessons from a Local Multi-Stakeholder Process in France  
Yorghos Remvikos, Sylvia Medina, Jeroen Van der Sluijs

INTERNATIONAL COOPERATION IN ENVIRONMENTAL EPIDEMIOLOGY: THE CASE-STUDY OF ISS (ITALY) -IFA (ECUADOR) COOPERATION  
Raúl Harari, Daniela Marsili, Pietro Comba, ISS-IFA collaborative study group

The Experiences and attitudes to the tobacco and alcohol in young people  
Róbert Ochaba, Ivan Bielik, Tatiana Kimáková

RISK COMMUNICATION / ISSUANCE OF RISK WARNINGS with respect to air pollution: Assessment of actions undertaken by the government authorities in Guadalajara, Mexico.

María Guadalupe Garibay-Chávez, María Luisa García-Bátiz

### **PS3.1 - Children's health poster session - Chemical exposures and child cognition and behaviour**

**Friday 28 August 2009, 12:00 - 13:00**

Association of Traffic-related Air Pollution with Children's Neurobehavioral Functions in Quanzhou, China

Jinliang Zhang, Shunqin Wang, Xiaodong Zeng, Yimin Zeng, Shuyun Chen

Prenatal exposure to pyrethroid insecticides and infant neurocognitive development at 3 years of age

Megan Williams, Dana Barr, David Camann, Andrew Rundle, Virginia Rauh, Robin Whyatt

Neonatal neurodevelopment and prenatal p,p'-DDE exposure: Evaluation by three different tests.

Lilia Araceli Bahena-Medina, Luisa Torres-Sanchez, Lourdes Schnaas, Maria del Carmen Hernandez Chavez, Erika Osorio Valencia, Mariano E Cebrián-García, Rosa María García Hernández, Lizbeth Lopez-Carrillo

GIS-based exposure to traffic-related air pollution during pregnancy and neurodevelopment at 14 months

MONICA GUXENS, INMACULADA AGUILERA, RAQUEL GARCIA-ESTEBAN, JORDI JULVEZ, JOAN FORNS, MARTINE VRIJHEID, JORDI SUNYER

GSTM1 Modify the Effect of Cord Blood Cotinine on Neurodevelopment at Three Days of Age

Chia-Jung Hsieh, Suh-Fang Jeng, Kuen-Yuh Wu, Wu-Shiun Hsieh, Yi-Ning Su, Hua-Fang Liao, Pau-Chung Chen

Long-term breastfeeding and neurodevelopment at 14 months: which factors could explain this relationship?

MONICA GUXENS, MICHELLE A. MENDEZ, RAQUEL GARCIA-ESTEBAN, JOAN FORNS, JORDI JULVEZ, M<sup>a</sup>CARMEN LOPEZ-SABATER, MERCEDES ESPADA, MARTINE VRIJHEID, JORDI SUNYER

Effect of *in utero* exposure to manganese on the neurodevelopment of the infant

Soo Eun Chung, Hae-Kwan Cheong, Eun-Hee Ha, Boong-Nyun Kim, Mina Ha, Yangho Kim, Yun Chul Hong, Hyesook Park, Nam-Soo Chang, Se-Young Oh

Blood lead and mercury level changes and improvement of attention deficit hyperactivity symptoms in school-aged children

Mina Ha, Hojang Kwon, Myung-Ho Lim, Eun Jung Kim,

*Yun-Chul Hong, Jong-Han Lim, Joon Sakong, Su-Young Kim, Chul-Gab Lee, Dongmug Kang*

Prenatal exposure to ETS and infantile neurodevelopment

*Bo-Eun Lee, Yun-Chul Hong, Hyesook Park, Mina Ha, Yangho Kim, Namsoo Chang, Young-Man Roh, Boong-Nyun Kim, Eun-Hee Ha, Young Ju Kim, Byung-Mi Kim, Ju-Hee Seo, Moon-Hee Chang*

Effect of Phthalate Exposure on the Hormonal Profile of Mexican Male Newborns During the First Months of Life

*L. Patricia Bustamante-Montes, María A. Hernández-Valero*

CORD BLOOD TOXICANTS AND NEURODEVELOPMENT OF INFANTS FROM INMA-VALENCIA COHORT, SPAIN

*Maria-Jose Lopez-Espinosa, Carmen Iñiguez, Mario Murcia, Jesus Ibarluzea, Esther Vizcaino, Marisa Rebagliato, Ferran Ballester*

Prenatal Exposure to Low Molecular Weight Phthalates and Autistic Social Impairment

*Amir Miodovnik, Mary Wolff, Antonia Calafat, Manori Silva, Stephanie Engel*

The effects of prenatal exposure to PCBs and MeHg on memory and learning in school-aged children.

*Sara Cabelli, Sally Thurston, David Bellinger, Chitra Amarasiriwardena, Larisa Altshul, Susan Korrick*

Pollutant chemicals, Thyrotropin, and Thyroid Hormone in Infants

*Yang Cao, Ben Blount, Liza Valentin-Blasini, Judy Bernbaum, Terry Phillips, Walter Rogan*

Hair mercury levels, fish consumption and cognitive development in preschool children from Southern Spain

*Carmen Freire, Rosa Ramos, Maria-Jose Lopez-Espinosa, Sergi Díez, Jesús Vioque, Ferrán Ballester, Marieta Fernández*

Absence of Effect-Measure Modification between Polychlorinated Biphenyls and Methylmercury on ADHD-Like Behaviors in the New Bedford Cohort

*Sharon Sagiv, David Bellinger, Larisa Altshul, Chitra Amarasiriwardena, Susan Korrick*

Phthalates exposure and attention deficit hyperactivity disorder in school-aged children

*Bung-Nyun Kim, Soo-Churl Cho, Min-Sup Shin, Hee-Jeong Yoo, Jae-Won Kim, Yeni Kim, Young Hee Yang, Soo-Young Bhang, Yun-Chul Hong*

In-Utero p,p'-DDE Exposure and Child Neurodevelopment at 48 Months of age: A Mexican Cohort

*Analucia Gutierrez, Luisa Torres-Sanchez, Lourdes*

*Schnaas, Maria del Carmen Hernandez, Erika Osorio,  
Mariano E Cebrian Garcia, Rosa Maria Garcia  
Hernandez, Lizbeth Lopez-Carrillo*

### **PS3.1 - Health impact assessment poster session**

**Friday 28 August 2009, 12:00 - 13:00**

Development of a software based decision support platform for assessing the impacts of urban pollutants  
*P. Cleall, M. Jones, H.R. Thomas, Z. Kapelan, G. Dorini, T. Hutchings, D. Sinnett, J. Swithenbank, V. Sharifi, T. Fletcher, Z. Chalabi, S. Vardoulakis, A. Tiwary, A. Azapagic*

Assessment of health and ecological impact of policy on a legacy contamination case study  
*S. Vardoulakis, P.J. Cleall, D. Sinnett, Q. Chen, A. Tiwary, Y-C. Li, C.S. De Munck, Z. Chalabi, V. Sharifi, S. Gummeneni, T. R. Hutchings, T. Fletcher, G.I. Leonardi, A. Azapagic*

Interactive effects of particulate matter and temperature on daily non-accidental deaths in Beijing, China  
*Yanzhen Wu, Jinliang Zhang*

The Prevalence of Diabetes Mellitus among Male Police Officers aged 30-59, in the Military Police of Teresina City, Piauí State, Brazil.  
*Gina Monteiro, Edna Silva, Rosalina Koifman*

The cardiovascular disease indices of sleep-disordered breathing among professional drivers  
*Tzu-Chieh Chou, Saou-Hsing Liou, Yung-Chienm Teng, Hwa Ting, Ching-Chang Lee, Tung-Sheng Shih*

Measuring the acute health effects of dust storms: a matched case-control series  
*Michael Gdalevich, Esti Nissan, Levana Kordova-Biezuner, Itamar Grotto, Shimon Scharf, Michael Huerta*

The Atherosclerosis and Risk of Cardiovascular consequences of Air pollution (ARCA) project. Study design and preliminary data.  
*Girolamo Catapano Minotti, Giovanni Guadalupi, Antonio Paolo D'Arcangelo, Saverio Palumbo, Mariangela Vigotti, Elisabetta Bianchini, Vincenzo Gemignani, Francesco Forastiere, Andrea Corsonello, Raffaele Antonelli Incalzi*

Human Health Risk Assessment Due to Inhalation Load Formed by Industrial Enterprises Emission in Druzhkovka, Ukraine  
*Olena Tuross, Oleg Kartavtsev, Arina Petrosian, Oksana Voznyuk, Viktor Stepanets, Michael Brody*

TRANSPORTATION, AIR POLLUTION AND PHYSICAL ACTIVITIES; AN INTEGRATED HEALTH RISK

ASSESSMENT PROGRAMME OF CLIMATE CHANGE  
AND URBAN POLICIES (TAPAS)

Audrey de Nazelle, Michelle Mendez, Judith Garcia-Aymerich, Jan-Paul Zock, Josep-Maria Anto, Mark Nieuwenhuijsen

Relations between antioxidant status and smoking biomarkers

Yu-Wen Chiu, Hung-Yi Chuang, Chia-Tsuan Huang

Arrange of shift schedule and work stress in Taiwan nurses

Hsin-Chia Hung, Pei-Chen Lin, Shung-Mei Pan, Chih-Hong Pan, Chiou-Jong Chen, Tung-Sheng Shih, Ming-Tsang Wu

Sero-epidemiology of measles among adult working population in southern Taiwan

Shih-Bin Su, How-Ran Guo

Dynamic change of night shift loading and sleep quality

Pei-Chen Lin, Hsin-Chia Hung, Shung-Mei Pan, Hsiu-Chin Liu, Ming-Tsang Wu

Maternal care-giving and hygiene behavioral determinants of diarrhea among under-five children in Nekemte town, western Ethiopia

Wondwossen Birke Eshete, Abebe Gbremariam, Bishaw Deboch

Assesment of effects of formaldehyde exposure on respiratory health: an innovative *in vitro* model

Charles PERSOZ, Sophie ACHARD, Christopher LELEU, Nathalie SETA

The ERA-ENVHEALTH project: Coordination of national environment and health research programmes - Environment and Health ERA-NET

Adrienne Pittman, Mohssine El Kalhoun, Salma Elreedy, Bart Verhagen

**Lunch**

**Friday 28 August 2009, 12:00 - 14:00**

**PS3.2 - Food poster session**

**Friday 28 August 2009, 13:00 - 14:00**

Serum levels of folic acid, nutritional folic acid consumption and reported adherence with folic acid supplementations among pregnant women

Natalya Bilenko, Lilia Grinshpoon, Yael Inbar, Hilel Vardi, Ilana Bekmaker

A case-control study of green tea or oolong tea consumption and esophageal squamous cell carcinoma in Taiwan

Yu-Kuei Chen, Ming-Tsang Wu, Chien-Hung Lee, Deng-Chyang Wu, I-Chen Wu, Jang-Ming Lee, Yih-

*Gang Goan, Shah-Hwa Chou, Hsin-Chia Hung*

Healthy food sesame oil protects against a synthetic chelating agent ferric-nitrilotriacetate induced renal failure

*Dur-Zong Hsu, Se-Ping Chien, Ke-Ting Chen, Ming-Yie Liu*

Characterizing Quantities and Nutritional Qualities of Household Foods Supplies for Emergency Preparedness

*William Hallman, Carol Byrd-Bredbenner, Cara Cuite, Scott Schefske, Anne Bellows, Teresa Vivar*

The Usage of Some Micronutrients and Food Additives as Bioprotectors against Toxic Exposures.

*Boris Katsnelson, Larissa Privalova, Sergey Kuzmin, Tamara Degtyareva, Julia Soloboyeva*

Seasonality of gastroenteric infections in association with animal production

*Jyotsna Jagaj, Jeffrey Griffiths, Kirshen Paul, Webb Patrick, Naumova Elena*

Patterns of protozoal infections: Spatiotemporal associations with cattle production

*Jyotsna Jagaj, Jeffrey Griffiths, Paul Kirshen, Patrick Webb, Elena Naumova*

Modelling Salmonella numbers in Irish raw pork sausages during transport and home refrigeration

*Ursula Gonzales-Barron, Ilias Soumpasis, Grainne Redmond, Francis Butler*

Challenges associated with reducing malnutrition and diarrheal disease in children in developing countries

*Gretchen Loeffler Peltier, Roseline Remans, Jessica Fanzo, Cheryl Palm, Stephen Ngigi, Barbara Walsh*

The relationship between human and bovine *Schistosoma japonicum* infections at the household and village level in southwest China

*Elizabeth J. Carlton, Edmund Y. W. Seto, Bo Zhong, Alan Hubbard, Robert C. Spear*

THE INCIDENCE OF *LISTERIA MONOCYTOGENIS* IN PASTEURIZED AND UNPASTEURIZED (RAW) MILK IN TWO DISTRICTS OF ALBANIA DURING A PERIOD OF 3 YEARS (2006-2008)

*Luljeta Leno, Dritan Laçi, Elvira Beli*

ASSESSMENT OF MILK PRODUCTS AS A BRUCELLOSIS TRANSMISSION FACTOR IN KYRGYZ REPUBLIC

*Maksat Kudayarova, Almaz Sultashev*

Decrease in Seroprevalence of Hepatitis A after the Implementation of Nationwide Disposable Tableware Use in Taiwan

*Shih-Bin Su, How-Ran Guo*

DETECTION OF ANTIBODIES TO COXIELLA  
BURNETII IN EMPLOYEES OF VETERINARY  
UNIVERSITY

*Erik Dorko, Tatiana Kimakova*

Epidemiological survey of food-borne botulism in Iran  
during (2004-2008)

*Hamidreza Tavakoli, Mohammad Zeynali*

Strengthening the Role of Street Food Vendors to  
Reduce the Burden of Foodborne Diseases in  
Developing Countries

*Firdu Zawide*

**PS3.2 - Children's health poster session - General**

**Friday 28 August 2009, 13:00 - 14:00**

Longitudinal Measures of PCBs and Thymus Size in  
Infants.

*Dean Sonneborn, Todd Jusko, Hye-Youn Park, Lubica  
Palkovicova, Danh Nguyen, Anton Kocan, Tomas  
Trnovec, Irva Hertz-Picciotto*

Potential environmental exposure to heavy metals and  
neurobehavioural performance in children 9-11 years  
old. An explorative study

*Rocio Capelo, Juan Alguacil, Diane Rohlman, Vanesa  
Navarro, Manuel Contreras, Judith Anglada, Rocio  
Jara, Amanda Gago, Francisco Navarro, Begoña  
Perez*

Obesity of children and youth in association with  
psychosocial factors of family

*Ludmila Sevcikova, Jana Jurkovicova, Zuzana  
Stefanikova, Lubica Sobotova, Lubica Aghova, Jana  
Hamade, Jana Novakova*

Socio-Cultural Influences on Obesity and Inflammation  
among 2-Year Old Puerto-Rican Children at Risk for  
Asthma Development

*Srimathi Kannan, Luis Acosta, Dolores Acevedo-  
Garcia, Adnan Divjan, Luis Bracero, Ginger Chew*

Children's Cancer and Carcinogens in Alberta: A  
Mapping Pilot Study

*Alvaro Osornio-Vargas, Irena Buka, Jesus Serrano,  
Mardocheo Palma, Piotr Klakowicz, Kent Stobart*

Children endemic goiter in the regions contaminated by  
uranium-containing ore wastes

*Gulnara Toichueva*

New statistical software application to children's health  
data in Saint-Petersburg

*Ekaterina Ozerova, Nadezhda Voischeva*

DIOXINS CONCENTRATION IN POSTNATAL  
MOTHER'S MILK IN KUALA LUMPUR

*Mohd Hasni Jaafar, Jamal Hisham Hassim*

### **PS3.3 - Noise and health poster session**

**Friday 28 August 2009, 13:00 - 14:00**

Occupational noise levels and change in blood pressure among BC firefighters.

Tracy Kirkham, *Hugh Davies, Mieke Koehoorn, Paul A Demers*

Long-term exposure to residential noise and air pollution and risk of cardiovascular diseases in Oslo, Norway - Project design and exposure assessment

Bente Oftedal, *Gunn Marit Aasvang, Ruhina Tasmin Biswas, Sachiko Watanabe, Per Nafstad, Wenche Nystad, Per Schwarze*

Subjective noise annoyance and road traffic noise exposure in Munich: results of questionnaire data and noise mapping

Martina Kohlhuber, *Heidi Mayrhofer, Dieter Kemmather, Dorothee Twardella, Hermann Fromme, Claudia Hornberg, Gabriele Bolte*

NOISE AND AIR POLLUTION CORRELATION AND ITS DETERMINANTS IN THE CITY OF GIRONA

Maria Foraster, *Mercedes Medina-Ramón, Xavier Basagaña, Laura Bouso, Roberto Elosua, Dolors Juvinyà, Marcela Rivera, Eva Santos-Garcés, Nino Kuenzli, Alexandre Deltell*

Exposure to noise from personal music players for high school students

Benoit Lévesque, *Raphaelle Fiset, Laurence Isabelle, Denis Gauvin, Julie Baril, Richard Larocque, Suzanne Gingras, Serge-André Girard, Tony Leroux, Michel Picard*

Level of noise in the urban environment in Kardzhali, Bulgaria

Jeni Staykova

Is there an association among road traffic noise exposure and cardiovascular risk score?

Lubica Sobotova, *Jana Jurkovicova, Ludmila Sevcikova, Zuzana Stefanikova, Helena Rapantova, Lubica Aghova*

A Study on the Noise Exposure and Hearing Loss of the Diesel-Electric Locomotive Maintenance Workers in Taiwan Railways Administration

Kuo-Hua Wang, *Shu-Ju Chang, Ching-Ming Chang, Chen-Yu Wang*

Aircraft noise and incidence of hypertension among Swedish men and women

Charlotta Eriksson, *Gösta Bluhm, Agneta Hilding, Claes-Göran Östenson, Göran Pershagen*

Agiotensinogen gene, noise and their interaction in the development of hypertension among aerospace

workers in Taiwan.

Kang-Yin Cheng, Bing-Fang Hwang, Hsin-Hua Chan

Acute Effects of Environmental Noise Exposure on the Control of Cardiac Output in Healthy Adults

Hsiu-Hui Hsieh, Yu-An Lai, Ta-Yuan Chang

Prolonged exposure to occupational noise and hypertension among workers in the aviation industry.

Jen-Yin Chen, Ta-Yuan Chang

Aircraft noise and blood pressure in the populations living near the Ciampino airport in Rome

Carla Ancona, Chiara Badaloni, Valeria Fano, Tina Fabozzi, Francesco Forastiere, Carlo Perucci, SERA Study Team

Current traffic noise exposure assessment and noise effect of distraction in class among children in Xi'an city

Junhan Liu, Xiaochuan Pan

Noise Exposure on Welding Workers

Shu-Ju Chang, Wen-Ling Chen

Prevalence and Risk Factors of Noise-Induced Hearing Loss among Liquefied Petroleum Gas (LPG) Cylinder Infusion Workers in Taiwan

Shu-Ju Chang, Chin-Kuo Chang

### **PS3.4 - Water quality poster session**

**Friday 28 August 2009, 13:00 - 14:00**

Using of activated carbon for water purification from fulvic acids

Tetiana Poliakova, Ivan Kozyatnyk, Olena Samsoni-Todorova

INFLUENCE OF THE QUALITY OF DRINKING WATER ON THE DIARRHEA IN TAJIKISTAN

Irina Korsakova, Kamol Daburov

Health status of 8-10 year old children and the arsenic content of the drinking water

Tamás Rudnai, Mihály János Varró, Eszter Szabó, Annamária Mácsik, Mátyás Borsányi, Peter Rudnai

Tap water use amongst Pregnant Women in a multi-ethnic cohort

Rachel Smith, Mireille Toledano, John Wright, Pauline Raynor, Mark Nieuwenhuijsen

Trihalomethanes and semen quality in England and Wales

Nina Iszatt, Mark J. Nieuwenhuijsen, James Bennett, Andrew Povey, Allan Pacey, Harry Moore, Nicola Cherry, Mireille B. Toledano

Water consumption and use, trihalomethane exposure and the risk of hypospadias

Nina Iszatt, Mark J. Nieuwenhuijsen, Mireille B.

*Toledano, Paul Nelson, Paul Elliot*

Risk of low birth weight in relation to trihalomethane concentrations in public water supply: a national study using multiple data sources.

*M Toledano, J Bennett, J Molitor, N Best, J Fawell, P Elliott, M Nieuwenhuijsen*

Integrated environmental health impact assessment of three drinking water contaminants

*James Grellier, Antonio Gasparrini, Päivi Meriläinen, Cristina Villanueva, Alexandra Kuhn, Tony Fletcher, Terttu Vartiainen, Manolis Kogevas, Johan Högberg, Alfred Bernard, Mark Nieuwenhuijsen*

Congenital malformations and exposure to disinfection by-products (DBPs) in drinking water during pregnancy in Emilia Romagna Region (Northern Italy): presentation of a study included in the Health Impacts of Long-Term Exposure to Disinfection By-Products in Drinking Water (HiWate) project

*Elena Righi, Fantuzzi Guglielmina, Elisa Calzolari, Petra Bechtol, Paolo Lauriola, Danila Tortorici, Gabriella Aggazzotti*

To Chlorinate or not to Chlorinate?: That is the Watery Question

*David F Goldsmith, Erin Jones, Tee L Guidotti*

FIRST RESULTS ABOUT AN OSTREOPSIS OVATA MONITORING ALONG THE CATANIA COAST (SICILY-ITALY).

*Margherita Ferrante, Gea Oliveri Conti, Caterina Ledda, Matteo Zuccarello, Francesca Bella, Elvira Fagone, Chiara Copat, Maria Fiore, Roberto Fallico*

Environmental mycobacteriosis and drinking water: an emerging problem for developed countries

*Elizabeth Hilborn, Andrew Ghio*

Trihalomethanes exposure through drinking water and low birth weight risk in Kaunas cohort

*Regina Grazuleviciene, Asta Danileviciute, Ruta Nadisauskiene, Jone Vencloviene, Jurate Buinauskiene, Tomas Grazulevicius*

Association between trihalomethane concentrations in drinking water and adverse pregnancy outcome in Taiwan.

*Chun-Yuh Yang, Shang-Shyue Tsai*

### **PS3.5 - Cancer - poster session**

**Friday 28 August 2009, 13:00 - 14:00**

Occupation and Brain Cancer: a case control in a metropolitan region of Rio de Janeiro, Brazil

*Camila Muzi, Raphael Guimarães, Gina Monteiro, Sergio Koifman*

Environmental Tobacco Smoke, Active Smoking and Breast Cancer Risk: Synthesis of Current Evidence Implicates a Risk

Kenneth C. Johnson, Jodi Wilson

Effects of Exposure to Hexavalent Chromium on Male Electroplating Workers

Chih-Hong Pan, Tung-Sheng Shih, Chiou-Jong Chen, Jin-Huei Hsu, Yeou-Lih Huang, Ming-Tsang Wu

Chronic renal failure and urinary tract cancer in Chinese herbalists: Implications for the safety issues of herbal medicine

Pau-Chung Chen, Pei-Jen Chang, Jung-Der Wang

ASSESSMENT OF THE PRECURSORS OF HEME BIOSYNTHESIS IN BIOLOGICAL MEDIA OF BREAST CANCER PATIENTS

Dale Baranauskiene, Loreta Strumylaite, Oleg Abdrakhmanov, Rima Kregzdyte

Tobacco use and colorectal cancer: a population-based case-control study in Newfoundland and Labrador, Canada

Jinhui Zhao, Roy West, Sharon Buehler, Peizhong Peter Wang

Pickled meat consumption and colorectal cancer (CRC): A case-control study in Newfoundland and Labrador, Canada

Joshua Squires, Barbara Roebathan, Sharon Buehler, Zhuoyu Sun, Peizhong Peter Wang

Calcium and vitamin intakes and colorectal cancer - results from a large population based case-control study in Canada

Zhuoyu Sun, Barbara Boebathan, Josh Squires, Sharon Buehler, Peizhong Peter Wang

Increased cancer mortality and incidence among residents near a petrochemical complex in Taiwan

Suh-Woan Hu, Chang-Chuan Chan

ASSOCIATION OF CADMIUM WITH HUMAN BREAST CANCER

Loreta Strumylaite, Algirdas Bogusevicius, Oleg Abdrakhmanov, Dale Baranauskiene, Rima Kregzdyte, Darius Pranyis, Lina Poskiene

The impact of farming occupation on prostate cancer survival

James Gomes

Occupational Risks of Esophageal Cancer in Taiwanese Men

Shih-Hui Huang, I-Chen Wu, Deng-Chyang Wu, Hon-Ki Hsu, Jeng-Fu Yang, Yu-Kuei Chen, Shah-Hwa Chou, Yih-Gang Goan, Chia-Tsuan Huang, \*Ming-Tsang Wu

Environmental Exposures and Adult Brain Cancers

Faith G. Davis, Dora Ilyasova, Kristin M. Rankin,  
Bridget J. McCarthy, Serap Erdal, Juliana F. M. Lewis,  
Umaima Al-Alem, Darell Bigner

Serum zinc and prostate cancer risk in the Multiethnic Cohort Study

Song-Yi Park, Laurence Kolonel

Occupation and Bladder Cancer in a Population-Based Case-Control Study in Northern New England

Joanne Colt, Margaret Karagas, Molly Schwenn, Dalsu Baris, Alison Johnson, Patricia Stewart, Castine Verrill,  
Lee Moore, Jay Lubin, Mary Ward, Claudine Samanic,  
Nathaniel Rothman, Kenneth Cantor, Laura Beane Freeman, Alan Schned, Sai Cherala, Debra Silverman

The environment : a common source of exposure for human beings and dogs : first french case-control study for testing the use of dogs as sentinels for cancers from environmental origins.

Brigitte Anna ENRIQUEZ, Aude TABARIES, Patrick DEVAUCHELLE, Jean-Jacques BENET

Association of bladder cancer with residential exposure to petrochemical air pollutant emissions in Taiwan.

Shang-Shyue Tsai, Chun-Yuh Yang

An Update on the Research Activities of the Environmental and Occupational Working Group for the Ontario Health Study (OHS)

Shelley Harris, Len Ritter, Tye Arbuckle, Aaron Blair,  
Leanne Blahut, Jim Bus, J. Christopher Hall, Scott Mabury, Loraine Marrett, Anthony Miller, Victoria Nadalin, Pat Rasmussen, Paul Villeneuve, Amanda Wheeler, John McLaughlin

DIETARY PATTERNS IN ADOLESCENCE AND BRAIN TUMORS IN ADULTS: A CASE-CONTROL STUDY IN RIO DE JANEIRO, BRAZIL.

Rita de Cássia Albuquerque, Gina Monteiro,  
Rosangela Pereira, Sergio Koifman

Genetic, environmental and clinical factors related to treatment failure of cervical precancerous lesions among Brazilian women

ILCE SILVA, ROSALINA KOIFMAN, VIRGÍLIO PARREIRA, ANGÉLICA ALMEIDA, SERGIO KOIFMAN

Skin cancer (squamous cell carcinoma of the skin) and UV exposure: more cancer on the coast than in the inland

Eva Andersson, Gunilla Wastensson

## **OS9.1 - Symposium 8 - Global Change, Food Security, Safety and Ethics**

**Friday 28 August 2009, 14:00 - 15:30**

ETHICAL DIMENSION OF GLOBAL CHANGE

Cristina Tirado-von der Pahlen

THE GLOBAL CONTEXT OF FOOD SAFETY Frans  
Brom and Jan Staman  
*Frans Brom, Jan Staman*

UNCERTAINTY AND PRECAUTION IN FOOD,  
HEALTH AND ENVIRONMENT: EUROPEAN  
AGENDA

*Marco Martuzzi, Cristina Tirado-von der Pahlen*

### **OS9.2 - Drinking water quality - water quality oral session 3**

**Friday 28 August 2009, 14:00 - 15:30**

Atrazine Exposure and Rates of Low Birth Weight and  
Premature Births in Kentucky

*Claudia Hopenhayn, Jessica Rinsky, Steven Browning,  
Heather Bush, Vijay Golla*

Pilot study of household drinking water quality in  
remote rural communities, Baja California Sur, Mexico.

*Ondine von Ehrenstein, Florence Cassassuce*

Lifetime exposure to arsenic in drinking water and  
bladder cancer in Michigan: A population-based case-  
control study

*Jaymie Meliker, Melissa Slotnick, Gillian AvRuskin,  
David Schottenfeld, Geoffrey Jacquez, Mark Wilson,  
Pierre Goovaerts, Al Franzblau, Jerome Nriagu*

Urinary Arsenic Species, Toenail Arsenic, and  
Estimates of Arsenic Intake in Southeastern Michigan  
Population with Low-to-Moderate Exposure to Arsenic  
in Drinking Water

*Zorimar Rivera-Nunez, Jaymie Meliker, John Meeker,  
Jerome Nriagu*

Environmental determinants of diarrhea among under-  
five children in Nekemte town, western Ethiopia

*Wondwossen Birke Eshete, Abebe Gebremariam,  
Bishaw Deboch*

### **OS9.3 - Symposium 1 - PFOA: epidemiologic research in the mid-Ohio valley in a community exposed to contaminated drinking water**

**Friday 28 August 2009, 14:00 - 15:30**

Association of perfluorooctanic acid (PFOA) and  
perfluorooctanesulfonate (PFOS) with serum lipids  
among adults living near a chemical plant

*Kyle Steenland, Sarah Tinker, Stephanie Frisbee, Alan  
Ducatman, Viola Vaccarino*

Serum PFOA and PFOS and Pregnancy Outcome

*David Savitz, Cheryl Stein, Marcelle Dougan*

Immune Markers in a Community Exposed to PFOA:  
Findings from the C8 Science Panel Study

*Tony Fletcher, Genser Bernd, Mike Luster, Giovanni  
Leonardi*

Residents' PFOA serum concentrations before and after granular activated carbon filtration at public water systems in Little Hocking, Ohio and Lubeck, West Virginia

Scott Bartell, Antonia Calafat, Christopher Lyu, Kayoko Kato, P Barry Ryan, Kyle Steenland

Retrospective Exposure Estimation for Perfluorooctanoic Acid in Eastern Ohio and Western West Virginia.

Hyeong-Moo Shin, Scott M. Bartell, Verónica M. Vieira, Russell L. Detwiler, Kyle Steenland, P. Barry Ryan

## **OS9.4 - Symposium 25 - Prenatal Exposures and Environmental Origins of Obesity**

**Friday 28 August 2009, 14:00 - 15:30**

Prenatal exposure to the major DDT metabolite DDE and longitudinal measures of body mass index in boys from southern Mexico

Lea Cupul-Uicab, Mauricio Hernandez-Avila, Matthew Longnecker

Maternal Arsenic Exposure in Relation to Maternal and Child Adiposity and Risk Factors for Diabetes

Adrienne Ettinger

In Utero Organochlorine Exposure and Obesity in Children of Farmworkers

Marcella Warner

Prenatal Exposures to Phthalates and Polycyclic Aromatic Hydrocarbons and Body Size at age Five  
Andrew Rundle, Robin Whyatt, David Camann, Lori Hoepner, Darrell Holmes, Antonia Calafat, Frederica Perera

## **OS9.5 - Comparing different exposure assessment methods in air pollution epidemiology - exposure assessment oral session 1**

**Friday 28 August 2009, 14:00 - 15:30**

A novel GIS method for modelling 1km NO<sub>2</sub> concentrations across Europe

Danielle Vienneau, Kees de Hoogh, David Briggs

Comparison of methods for estimation of exposure to traffic related NO<sub>2</sub>

Christine Cowie, Nectarios Rose, Guy Marks, William Lilley, Michael Rae, Rob Gillett

Buildings and population density in intra-urban air pollution epidemiology: The New York City Community Air Survey (NYCCAS)

Jane Clougherty, Zev Ross, Sarah Johnson, Iyad Kheirbek, Thomas Matte

Individual exposure modelling in an integrated decision support system for air quality management

*Alexandra Kuhn, Miranda Loh, Lydia Gerharz, Sandra Torras Ortiz, Aileen Yang, Volker Klotz, Peter Fantke, Alena Bartonova, Rainer Friedrich*

Modelling gender specific exposure to air pollution  
*Luc Int Panis, Carolien Beckx, Geert Wets*

### **OS9.6 - Methods for quantification of short term effects - methodology oral session 3**

**Friday 28 August 2009, 14:00 - 15:30**

Missing data imputation in time series of air pollution  
*Washington Junger, Antonio Ponce de Leon*

A novel approach to estimate distributed lag model between hospital admissions and ozone: a multi-city time series analyses  
*Antonella Zanobetti, Joel Schwartz*

Quantification of short term effects of pollen counts and sentinel botanic garden observations on pollinosis symptoms: a French panel study  
*Gaëlle PEDRONO, Christelle LE GRAND, Marie-Thérèse GUILLAM, Alain MEUNIER, Daniel RIVIERE, Claude FIGUREAU, Michel THIBAUDON, Angéline VINAT, Yann DUBREIL, Dominique CHEVALLIER, Laurent-Charles ANTOINE, Odile MORIN, Claire SEGALA*

A New Method of Identifying Residual Confounding and other Violations of Model Assumptions  
*W Dana Flanders, Mitch Klein, Matt Strickland, Lyndsey Darrow, Stephanie Sarnat, Jeremy Sarnat, Lance Waller, Paige Tolbert*

TIME-SERIES ON MORTALITY RELATED TO AIR POLLUTION IN VIENNA: A SENSITIVITY ANALYSIS  
*Hanns Moshhammer*

### **OS9.7 - Urban health - oral session**

**Friday 28 August 2009, 14:00 - 15:30**

Accumulation of DBPs in human breast milk  
*Melinda-Haydee Kovacs, Nicoleta Brisan, Gabriela Zaharia, Dumitru Ristoiu*

Development of a Spatial Vulnerability Assessment for Heat-Related Illness  
*Kate Bassil, Claus Rinner, Dianne Patychuk, Stephanie Gower, Monica Campbell*

Influence of built environment and socioeconomic position on children's physical activity during leisure time and due to mode of travel.  
*Gabriele Bolte, Hermann Fromme, GME Study Group*

Food security in impoverished urban settlements in South Africa

Nisha Naicker, Angela Mathee, Daphne Conco

Assessing vulnerability to heat stress in urban areas.  
The example of Greater London.

Tanja Wolf, Glenn McGregor, Antonis Analitis

## **OS9.8 - Health impact assessment - oral session**

**Friday 28 August 2009, 14:00 - 15:30**

Health impact assessment for particulate matter (PM<sub>10</sub>)  
in Mexico City

Horacio Riojas Rodríguez, Urinda Alamo Hernández,  
José Luis Texcalac Sangrador, Isabelle Romieu

Uncertainty in Bias Estimation: Implication for Health  
Impact Assessment. An Analysis within the INTARESE  
Project.

Xanthi Pedeli, Klea Katsouyanni

Estimating Local Health Impacts using Fine-Scale Air  
Quality Estimates and Baseline Incidence Rates

Neal Fann, Karen Wesson

Air pollution and community health: quantifying acute  
cardio-respiratory events attributable to SO<sub>2</sub> and NO<sub>2</sub>  
exposure

Michael Gdalevich, David M. Broday, Yuval ., Shimon  
Scharf, Haim Bibi, Michael Huerta

Monetisation Review on Environmental Health Effects  
in Health Impact Assessments/HIA

Tiffany Istamto, Danny Houthuijs, Erik Lebret

## **Coffee**

**Friday 28 August 2009, 15:30 - 16:00**

## **Plenary Session 4: Food and the Environment: Sustaining Supplies, Shifting Consumer Choices**

**Friday 28 August 2009, 16:00 - 17:30**

Pat Wall: Ireland,

Tim Lang: UK

## **Conference Dinner**

**Friday 28 August 2009, 19:00 - late**      **Guinness Brewery**

## Saturday 29 August 2009

### OS10.1 - Outdoor air pollution - oral session 2

Saturday 29 August 2009, 09:00 - 10:30

Expert elicitation on health effects related to exposure to ultrafine particles: likelihood of causality and causal pathways

Jeroen de Hartog, Anne Knol, Hanna Boogaard, Pauline Slottje, Jeroen van der Sluijs, Erik Lebret, Flemming Cassee, Arjan Wardekker, Jon Ayres, Paul Borm, Bert Brunekreef, Ken Donaldson, Francesco Forastiere, Stephen Holgate, Wolfgang Kreyling, Benoit Nemery, Juha Pekkanen, Vicky Stone, Erich Wichmann, Gerard Hoek

Exposure-response Relationship between Particulate Air Pollution and Short-term Mortality in Four Chinese Cities

Yanshen Zhang, Xiaochuan Pan, Maigeng Zhou

Concentration response functions for ultrafine particles and all-cause mortality and hospital admissions: results of an European expert panel elicitation

Hanna Boogaard, Gerard Hoek, Anne Knol, Jeroen de Hartog, Pauline Slottje, Jon G Ayres, Paul Borm, Bert Brunekreef, Ken Donaldson, Francesco Forastiere, Stephen Holgate, Wolfgang G. Kreyling, Benoit Nemery, Juha Pekkanen, Vicky Stone, Erich Wichmann, Jeroen van der Sluijs

The Temporal Pattern of Mortality Responses to Ambient Ozone in the APHEA project.

Evangelia Samoli, Antonella Zanobetti, Joel Schwartz, Richard Atkinson, Alain LeTertre, Christian Schindler, Laura Pérez, Enio Cadum, Juha Pekkanen, Anna Paldy, Giota Touloumi, Klea Katsouyanni

MONITORING TO RESOLVE THE AIR QUALITY-HEALTH ISSUE

Ronald Wyzga, Frederick Lipfert

### OS10.2 - Symposium 31 - Environment and Cancer – new North American and EU prevention initiatives

Saturday 29 August 2009, 09:00 - 10:30

Advocating a New Approach to Cancer Prevention in the U.S.

Molly Jacobs, Richard Clapp, Michael Lerner, Ted Schettler, Jeanne Rizzo

EU: leading the way on cancer prevention via environmental factors?

Lisette van Vliet

Global Zero Cancer Campaign ( for the panel on  
Cancer Prevention that is convened by Dick Clapp)  
andrew Watterson, rory o'neill, tommy gormanb

### **OS10.3 - Symposium 15 - Association of pesticide exposure with Parkinson's disease (PD)**

**Saturday 29 August 2009, 09:00 - 10:30**

Pesticide exposures from agricultural applications in  
California and gene-environment interactions in  
Parkinson's disease

Beate Ritz, Angelika Manthripragada, Matthew  
Farrer, Myles Cockburn, Shannon Rhodes, Jeff  
Bronstein

A prospective nested case-control study of serum  
organochlorine pesticides and risk of Parkinson  
Disease

Marc Weisskopf, Paul Knekt, Eilis O'Reilly, Jukka  
Lyytinen, Antti Reunanen, Francine Laden, Larisa  
Altshul, Alberto Ascherio

Pesticide exposure and Parkinson's disease (PD) in  
the Agricultural Health Study (AHS)

Freya Kamel, Grace Bhudhikanok, Aaron Blair,  
Samuel Goldman, Jane Hoppin, Monica Korell, J  
William Langston, Marie Richards, G Webster Ross,  
Dale Sandler, David Umbach, Caroline Tanner

Professional exposure to pesticides and Parkinson's  
disease (PD) among French agricultural workers

Alexis Elbaz, Frédéric Moisan

### **OS10.4 - Risk communication and policy - oral session**

**Saturday 29 August 2009, 09:00 - 10:30**

Developing an Environmental Health Tracking Web  
Portal to Meet the Information and Communication  
Needs of Diverse Users

Michelle Wong, Galatea King, Craig Wolff, Eric  
Roberts, Paul English

Communicating Environmental Risk; Waste,  
Incineration and Dioxins

Joanne Rourke

Community Engagement Benefits Environmental  
Health Research

Caroline Dilworth, Liam O'Fallon, Kimberly Gray

Environmental health and risk perception in practice:  
a review of case studies

Paolo Luria, Mary Lyons

## **OS10.5 - Environmental exposures and foetal and child development - children's health oral session 2**

**Saturday 29 August 2009, 09:00 - 10:30**

Serum Biomarkers of Potential Hormonally Active Chemicals and Age at Pubertal Transition in Girls  
Gayle C. Windham, Susan M. Pinney, Raymond Lum, Andreas Sjodin, Lawrence H. Kushi, Frank M. Biro, Larry Needham, Robert Hiatt

Perfluorooctanoic acid (PFOA) and Pubertal Maturation in Young Girls  
Susan M. Pinney, Gayle C. Windham, Frank M. Biro, Larry H. Kushi, Lusine Yaghjian, Antonia Calafat, Kayoko Kato, Paul Succop, M. Kathryn Brown, Ann Hernick, Robert Bornschein

The relationship among maternal fish consumption, mercury level, and health effects from fetus to infant using a structural equation model. : Mothers and Children's Environmental Health (MOCEH)  
Byung-Mi Kim, Eun-Hee Ha, Hyesook Park, Mina Ha, Yangho Kim, Yun -Chul Hong, Namsoo Chang, Boong-Nyun Kim, Young-Ju Kim, Bo-Eun Lee, Ju-Hee Seo, Moon-Hee Chang

Joint effects of BMI, diet, and urinary biomarkers of environmental exposures in relation to female pubertal maturation  
Mary S. Wolff, Susan Teitelbaum, Susan Pinney, Gayle Windham, Lawrence H. Kushi, Frank Biro, Chris Erdmann, Robert Hiatt, Manori J. Silva, Xiaoyun Ye, Michael E. Rybak, Christine M. Pfeiffer, Laura Liao, Antonia M. Calafat

Dioxin Exposure and Puberty Onset Among Russian Boys  
Susan Korrick, Paige Williams, Oleg Sergeyev, Mary Lee, Jane Burns, Julie DelPrato, Boris Revich, Larisa Altshul, Donald Patterson, Wayman Turner, Russ Hauser

## **OS10.6 - DBPs and health outcomes - water quality oral session 1**

**Saturday 29 August 2009, 09:00 - 10:30**

Exposure to disinfection by-products and adverse birth outcomes related to fetal growth and prematurity - a systematic review and meta-analysis  
James Grellier, James Bennett, Evridiki Patelarou, Rachel Smith, Mireille Toledano, Lesley Rushton, David Briggs, Mark Nieuwenhuijsen

Low birth weight and exposure to disinfection by-products in pregnant women in Crete (Rhea study)  
Evridiki Patelarou, Leda Chatzi, Sophia Kargaki, Antonis Koutis, Panagiota Sourtzi, Mark Nieuwenhuijsen, Euripides Stephanou, Manolis

*Kogevinas*

CHLORINATION DISINFECTION BYPRODUCTS IN DRINKING WATER AND CONGENITAL ANOMALIES; REVIEW AND META-ANALYSES

*Mark Nieuwenhuijsen, David Martinez, James Grellier, James Bennett, Nicky Best, Nina Iszatt, Martine Vrijheid, Mireille Toledano*

Chlorination Disinfection By-products and Risk of stillbirths in England and Wales

*M B Toledano, J E Bennett, P Hambly, K de Hoogh, P Elliott, M Nieuwenhuijsen*

The Effect of Water Disinfection By-products on Fetal Growth in Two Southeastern U.S. Communities

*Bethany J. Horton, Tom Luben, David A. Savitz, Amy Herring*

## **OS10.7 - Symposium 5 - Food, agriculture, environment, and infectious diseases of poverty**

**Saturday 29 August 2009, 09:00 - 10:30**

Environmental change, food security and human health

*John Ingram, Polly Ericksen*

AIDS, Agriculture and Climate Change in Southern Africa

*Scott Drimie*

Providing simulations of food crop production for health impacts

*Gillian Rose, Tim Wheeler, Sari Kovats*

Embedding nutrition in agriculture and health: addressing critical challenges

*Stuart Gillespie*

Food insecurity, social and health inequities

*Sharon Friel*

The multiple challenges of meeting future global food security

*Colin Butler*

## **Coffee**

**Saturday 29 August 2009, 10:30 - 11:00**

## **OS11.1 - Symposium 4 - Health Impact of Air Pollution Reduction: An Undisclosed Tale of the Beijing Olympics**

**Saturday 29 August 2009, 11:00 - 12:30**

Changes in Heart Rate Variability in the Cardiovascular Elderly Beijing Residents during the Beijing Olympics

*Wei Huang, Tong Zhu, Xiaochuan Pan, Min Hu, Tong Wang, Yuping Jia, Liwen Zhang, Xingang Liu,*

*Yuanhang Zhang, Chengcai Li, Xiaoyan Tang*

Acute Effect of Black Carbon and Particle Pollution in the Air on Exhaled Nitric Oxide of Elementary School Children before and during 2008 Beijing Olympic  
*Weiwei Lin, Tong Zhu, Wei Huang, Min Hu, Hong Chen, Yuanhang Zhang, Xingang Liu, Chengcai Li, Xiaoyan Tang*

Air Pollution Characteristics Before, During, and After the Beijing Olympics  
*Tong Zhu, Xin Li, Min Hu, Xiaoyan Tang, CAREBEIJING Team*

The Beijing HEART Study: Study Hypotheses and Preliminary Results  
*Junfeng Zhang, Tong Zhu, Wei Huang, Howard Kipen, Guangfa Wang, David Rich, Ping Zhu, Yuedan Wang, Min Hu, Shou-En Lu, Pamela Ohman-Strikland, Jicheng Gong, Jian Tong*

## **OS11.2 - Symposium 27 - Global Environmental Change and Human Health: Food, environment, sustainability**

**Saturday 29 August 2009, 11:00 - 12:30**

Developing methods for estimating the impacts of climate change on malnutrition  
*Sari Kovats, Simon Lloyd, Zaid Chalabi, Anita Perryman, Tim Wheeler, Gillian Rose, Tom Osborne*

International Assessment of Agricultural Science and Technology for Development (IAASTD)  
*Kristie Ebi*

Global Environmental Change and Human Health: An Earth System Science Partnership Response  
*Mark Rosenberg, Martin Rice*

## **OS11.3 - Public health, policy, and the environment - oral session**

**Saturday 29 August 2009, 11:00 - 12:30**

U.S. Environmental Protection Agency's (EPA) 2008 Report on the Environment (ROE): Identified Gaps and Future Challenges for Human Exposure and Health Indicators  
*Patricia Murphy, Danelle Lobdell*

Mass Psychogenic Illness: Can Experts Agree When It Occurs And How Often?  
*Lisa Page, Catherine Keshishian, Giovanni Leonardi, Virginia Murray, Simon Wessely*

The future of environmental health, an integrated approach  
*Henk Hilderink, Paul Lucas, Louis Niessen*

Water, the Mid-East Conflict and Public Health: From Zero-Sum to Win-Win

*Ziad Abdeen, Jamal Safi, Elihu Richter*

## **OS11.4 - Symposium 24 - Organochlorines and Cancer: Recent Findings and Possible Mechanisms**

**Saturday 29 August 2009, 11:00 - 12:30**

Blood Levels of Organochlorines Before, During and After Chemotherapy among Non-Hodgkin Lymphoma (NHL) Patients

*Dalsu Baris, Roel Vermeulen, Mark Purdue, Wyndham Wilson, Edo Pellizzari, Patricia Hartge, Nathaniel Rothman*

Carcinogenic pathways of organochlorine exposures

*Kirsten Moysich*

Pre-diagnostic serum concentrations of organochlorine compounds and risk of testicular germ cell tumors

*Mark Purdue, Lawrence Engel, Hilde Langseth, Larry Needham, Aage Andersen, Dana Barr, Aaron Blair, Nathaniel Rothman, Katherine McGlynn*

Residential Exposure to Polychlorinated Biphenyls and Organochlorine Pesticides and Risk of Childhood Leukemia

*Mary H. Ward, Joanne S. Colt, Catherine Metayer, Robert B. Gunier, Jay Lubin, Vonda Crouse, Marcia G. Nishioka, Peggy Reynolds, Patricia A. Buffler*

Plasma organochlorine levels and risk of non-Hodgkin lymphoma in the Physicians' Health Study.

*Kimberly Bertrand, Donna Spiegelman, Jon Aster, Larisa Altshul, Susan Korrick, Scott Rodig, Shumin Zhang, Tobias Kurth, Francine Laden*

## **OS11.5 - DBPs and nitrates in water - water quality oral session 2**

**Saturday 29 August 2009, 11:00 - 12:30**

Drinking-Water Nitrate and Congenital Anomalies: A Population-Based Case-Control Study

*Caitlin Holtby, Judith Guernsey, Alexander Allen, John VanLeeuwen, Victoria Allen, Rob Gordon, Grant Ferguson, Richard Gould*

Estimation for Reduced Trihalomethane Exposure through Ingestion from Heated Tea and Drinking Water

*An-Tsun Huang, Kenneth Cantor, Stuart Batterman*

Effects of tap water processing on the concentration of disinfection by-products in water people drink

*Md. Bayzidur Rahman, Christine Cowie, Tim Driscoll, Bruce Armstrong*

Changes in markers of genotoxicity in relation to exposure to disinfection by-products in swimming pools

*Manolis Kogevinas, Cristina Villanueva, Laia Font, Danae Liviac, Mark Nieuwenhuijsen, Aina Espinosa, Susan Richardson, Tamara Grummt, Pilar Fernandez, Joan O. Grimalt, Ricard Marcos*

## **OS11.6 - Time series and case-crossover studies of outdoor air pollution - poster symposium**

**Saturday 29 August 2009, 11:00 - 12:30**

Daily Mortality and Air Pollution in Atlanta: August 1998 - December 2006

*Rebecca Klemm, Ron Wyzga, Eddie Thomas*

Mortality Effects of PM<sub>10</sub> and O<sub>3</sub> in Chilean cities: results from the ESCALA Project

*Luis Cifuentes, Valentina Strappa*

Ares: a library for time series analysis in air pollution and health effects studies using R

*Washington Junger, Antonio Ponce de Leon*

Ozone and mortality in fifteen British conurbations: is the effect worse on hot days?

*Sam Pattenden, Ben Armstrong, Ai Milojevic, Ben Barratt, Zaid Chalabi, Ruth Doherty, Mat Heal, Sari Kovats, Paul Wilkinson*

ACUTE EFFECTS OF AIR POLLUTION IN BRINDISI, 2003-2005. IS THE ANSWER BLOWING IN THE WIND?

*Emilio Antonio Luca Gianicolo, Maria Serinelli, Marco Cervino, Cristina Mangia, Maurizio Portaluri, Maria Angela Vigotti*

Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Cardiovascular and Respiratory Emergency Department Visits

*Jennifer Peel, Mitch Klein, W. Dana Flanders, James Mulhollan, Paige Tolbert*

Assessment of short-term effects of ambient particulate matter on respiratory mortality in Italian cities

*Annunziata Faustini, Massimo Stafoggia, Giovanna Berti, Luigi Bisanti, Ennio Cadum, Achille Cernigliaro, Sandra Mallone, C. Alberto Perucci, Roberto Primerano, Corrado Scarnato, Roberta Tessari, Maria Angela Vigotti, Francesco Forastiere*

Comparison of different exposure definition in a case-crossover study on air pollution and daily mortality: counterintuitive results

*Stefano Zauli Sajani, Otto Hanninen, Stefano Marchesi, Paolo Lauriola*

Short term associations between daily cardiovascular and respiratory emergency admissions and PM<sub>10</sub>-levels in Switzerland

*Leticia Grize, Gian-Marco Alt, Robert Gehrig, Peter*

*Straehl, Reto Schuepbach, Christian Schindler*

The association between the particulate matter and the hospital emergency room visits for circulatory diseases □ A case-crossover study

*Xiaochuan Pan, Yuming Guo, Jianmin Chen, Liqun Liu, Minjuan Yang, Ulrich Franck*

Visibility, air quality and daily mortality in Shanghai, China

*Haidong Kan, Wei Huang, Lihong Huang, Weimin Song, Rongfang Jiang*

Association of ambient air pollution with hospital outpatient and emergency room visits in Shanghai, China

*Haidong Kan, Junshan Cao*

### **OS11.7 - Symposium 7 - Risk - Benefit Analysis of Food Production and Consumption on Environment and/or Health**

**Saturday 29 August 2009, 11:00 - 12:30**

DEVELOPMENT OF AN APPROACH FOR THE RISK-BENEFIT ANALYSIS OF FOODS AND FOOD COMPONENTS BY THE SCIENTIFIC COMMITTEE OF THE EUROPEAN FOOD SAFETY AUTHORITY

*Bernard Bottex*

HEALTH RISK AND BENEFIT ASSESSMENT: NEEDS AT THE INTERNATIONAL LEVEL

*Jorgen Schlundt Schlundt*

RISK BENEFIT ANALYSIS OF FOOD CONSUMPTION AND PRODUCTION ON HEALTH AND ON THE ENVIRONMENT

*Cristina Tirado-von der Pahlen*

### **Lunch**

**Saturday 29 August 2009, 12:00 - 14:00**