Poster Presenters at the HEI Annual Conference 2017

POSTER SESSION 1 – Sunday, April 30, 2017, 4:15 to 5:45 pm

Emissions and Exposure Assessment

Benjamin Barratt, King's College London, United Kingdom
  The Hong Kong D3D study: A dynamic three-dimensional exposure model for Hong Kong

Stuart Batterman, University of Michigan, Ann Arbor, MI
  Enhancing models and measurements of traffic-related air pollutants for health studies using dispersion and Bayesian fusion models

Christopher Frey, North Carolina State University, Raleigh, NC
  Characterizing the determinants of vehicle traffic emissions exposure: Measurement and modeling of land-use, traffic, transformation, and transport

Claire Huson and Leslie Edwards (presenter), U.S. Department of State, Washington, DC
  American diplomats and family members living in New Delhi, India: What are the impacts and practical mitigation for air pollution?*

Petros Koutrakis, Harvard T.H. Chan School of Public Health, Boston, MA
  Chemical and physical characterization of non-tailpipe and tailpipe emissions at 100 locations near major roads in the Greater Boston area

Jeremy Sarnat, Emory University, Atlanta, GA
  Metabolomic indicators of exposure to primary traffic for use in air pollution epidemiologic modeling

Edmund Seto, University of Washington–Seattle, WA
  Evaluation of alternative sensor-based exposure assessment methods

Xiaoliang Wang, Desert Research Institute, Reno, NV
  On-road vehicle emissions characterization from tunnel studies

Margaret Zawacki, US Environmental Protection Agency, Ann Arbor, MI
  Air quality impacts of mobile sources*

Epidemiological Studies — Health Effects at Low Levels of Pollution Exposure

Michael Brauer, University of British Columbia, Vancouver, Canada
  Identifying the shape of the association between long-term exposure to low levels of ambient air pollution and the risk of mortality: An extension of the Canadian Census Health and Environment Cohort using innovative data linkage and exposure methodology

  Substudies
  Daniel Crouse (presenter), University of New Brunswick, Fredericton, Canada, and Michael Brauer, University of British Columbia, Vancouver, Canada
    Ambient $PM_{2.5}$, O_3, and NO_2 exposures and associations with mortality over 16 years of follow-up in the (1991) Canadian Census Health and Environment Cohort (CanCHEC)

  Lauren Pinault (presenter), Statistics Canada, Ottawa, Canada, and Michael Brauer, University of British Columbia, Vancouver, Canada
    Examining associations between fine particulate matter and mortality using in the 2001 Canadian Census Health and Environment Cohort (CanCHEC)

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Bert Brunekreef, Utrecht University, Utrecht, the Netherlands
Mortality and morbidity effects of long-term exposure to low-level PM$_{2.5}$, black carbon, NO$_2$, and O$_3$: An analysis of European cohorts

Substudies

Kees de Hoogh (presenter), Swiss Tropical and Public Health Institute, Basel, Switzerland, and Bert Brunekreef, Utrecht University, Utrecht, The Netherlands
Air pollution exposure assessment for the ELAPSE project using hybrid LUR models

Massimo Stafoggia (presenter), Lazio Region Health Service, Rome, Italy, and Bert Brunekreef, Utrecht University, Utrecht, the Netherlands
Statistical methods for investigating the effects of long-term exposure to low air pollutant concentrations in the ELAPSE project using data from 11 pooled European cohorts and 7 administrative cohorts

Francesca Dominici, Harvard T.H. Chan School of Public Health, Boston, MA
Assessing adverse health effects of long-term exposure to low levels of ambient pollution

Substudies

Danielle Braun (presenter) and Francesca Dominici, Harvard T.H. Chan School of Public Health, Boston, MA, and Marianthi-Anna Kioumourtzoglou (presenter), Columbia University, New York, NY
Methods to estimate the effect of long-term PM$_{2.5}$ exposure on health outcomes when the exposure is mismeasured

Qian Di (presenter) and Francesca Dominici, Harvard T.H. Chan School of Public Health, Boston, MA
A neural network-based model for spatially and temporally resolved PM$_{2.5}$ exposures in the continental United States

Helen Suh, Tufts University, Medford, MA, and Annette Rohr (presenter), Electric Power Research Institute
Investigation of confounding in air pollution epidemiology studies using a large Medicare beneficiary dataset*

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Study not funded by HEI

Accountability

Jill Baumgartner and Thirumagal Kanagasabai (presenter), McGill University, Montreal, Canada
Transition from solid fuel to clean fuel cookstoves and its association with blood pressure in Chinese adults*

Ying-Ying Meng, University of California–Los Angeles, CA
Reductions in ambient air pollution due to goods movement actions and subsequent improvements in health outcomes (Phase 2 Health Effects study)

Ana Rappold and Anne Corrigan (presenter), U.S. Environmental Protection Agency Region 5, Chicago, IL
NAAQS attainment and the $PM_{2.5}$–mortality association*

Armistead Russell, Georgia Institute of Technology, Atlanta, GA
Impact of emissions changes on air quality and acute health effects in the Southeast, 1993–2012

Epidemiological Studies — Health Effects of Air Pollution

Jane Clougherty, Drexel University Dornsife School of Public Health, Philadelphia, PA
Susceptibility to multiple air pollutants in cardiovascular disease

Monica Guxens, Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain
Air Pollution, Autism Spectrum Disorders, and Brain Imaging Amongst CHildren in Europe — the APACHE project

William Kraus, Duke University, Durham, NC
Gene–environment interactions in a cardiovascular disease cohort

Haruya Sakai, Japan Automobile Research Institute, Ibaraki, Japan
Association of exposure to traffic related air pollution and noise with ischemic heart disease in elderly people living in Tokyo metropolitan area, Japan*

Scott Weichenthal, McGill University, Montreal, Canada
Biomass burning as a source of ambient fine particulate air pollution and hospital admissions for acute myocardial infarction*

Risk Communication

Scott Jenkins, U.S. Environmental Protection Agency, Research Triangle Park, NC
Air quality and public health: Updates on EPA's ongoing data collection and communication efforts*

Mechanisms of Health Effects

John Balmes, University of California–San Francisco, CA; Philip Bromberg, University of North Carolina–Chapel Hill, NC; Mark Frampton and David Rich (presenter), University of Rochester, NY; Nicholas Dagincourt, New England Research Institute, Watertown, MA
Multicenter Ozone Study in oldEr Subjects (MOSES). Part 2: Impacts of personal and ambient concentrations of ozone and other pollutants on cardiovascular and pulmonary function

Lydia Contreras, University of Texas–Austin, TX
The role of air pollution on RNA oxidative stress, characterization of stress-response enzymes, and applications toward RNA-based biosensors

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Kymberly Gowdy, East Carolina University, Greenville, NC
  Alterations in pulmonary and systemic specializing lipid mediators production after ozone exposure

Jeffrey Lewis, ExxonMobil Biomedical Sciences, Inc., Annandale, NJ
  The practical significance of measurement error in pulmonary function testing conducted in research settings*

Nga Lee (Sally) Ng, Georgia Institute of Technology, Atlanta, GA
  Chemical and cellular oxidant production from secondary organic aerosols generated from the photooxidation of biogenic and anthropogenic volatile organic compounds

Jason Surratt, University of North Carolina–Chapel Hill, NC
  Assessing the biological effects of isoprene-derived secondary organic aerosol (SOA) enhanced by anthropogenic pollutants on human lung cells

Real-World NO$_x$ Emission Inventories

Susan Anenberg, Environmental Health Analytics, LLC, Washington, DC
  Impacts and mitigation of excess diesel NO$_x$ emissions in 11 major vehicle markets*

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