

University of Washington/ University of British Columbia/ Simon Fraser University/ Oregon State University
Annual Symposium on Environmental, Occupational and Population Health

January 9 - 10, 2020

Innovative approaches for a planet in crisis

Thursday, January 9, 2020

11:00 – 11:45 Registration table (pick up name tag)

11:50 – 12:00 Welcome (Ballroom)

11:45 – 1:15 Buffet Lunch (Ballroom)

Bates Memorial Lecture 12:15 – 1:15

Dr. Craig Stephen, DVM, PhD, Canadian Wildlife Health Co-Op, U Sask & SPPH, University of British Columbia

“Health and environment in the Anthropocene.”

1:15 – 2:15 Panel session: Innovative approaches for health at the intersections of workplace, community and the environment (Ballroom) Chair Chelsea Himsworth (UBC)

Dr. Kate Weinberger (UBC) Dr. Tim Takaro (SFU) Dr. Peter Rabinowitz (UW) Dr. Perry Hystad (OSU) Dr. June Spector (UW)

2:20 – 4:00 Environmental Health

Valley: Chair Karen Bartlett (UBC)

2:20 – 2:40: Caislin Firth (SFU) For whom? Urban renewal, gentrification and population health consequences.

2:40 – 3:00: Matthew Jeronimo (UBC) Low-cost analysis of black carbon on filters by image-based reflectance.

3:00 – 3:20: *Shirley Kang (SFU) Cadmium mediates the effect of portable air purifiers on birth weight after multiple imputation of missing values.

3:20 – 3:40: *Josh Alampi (SFU) Associations of gestational exposure to environmental chemicals and autistic behaviours using Bayesian quantile regression.

3:40 – 4:00: *Mary Willis (OSU) Associations between exposure to oil and gas drilling during pregnancy and term birth weight: a difference-in-difference analysis.

2:20 – 4:00 Occupational Health

Summit: Chair Hugh Davies (UBC)

2:20 – 2:40: Ailin He (UBC) Evaluating program effectiveness on return-to-work in the construction sector.

2:40 – 3:00: Jeanne Sears (UW) Modifiable Workplace Factors Associated with Return-to-Work Interruption and Re-Injury among Workers with a Permanent Impairment.

3:00 – 3:20: *Liu Yang (OSU) Understanding Occupational Safety and Health (OSH) surveillance: Proposing components, attributes and example measures for an evaluation framework.

3:20 – 3:40: Esther Maas (UBC) Evaluating the effectiveness of gradual return-to-work for workers with a musculoskeletal disorder using linked administrative data.

3:40 – 4:00: Robert Macpherson (UBC) Does being injured outside of your province of residence affect your work disability duration? A comparative analysis of six Canadian workers’ compensation jurisdictions.

2:20 – 4:00 Public health

Mt. Baker: Chair David Patrick (UBC)

2:20 – 2:40 *Chris Laugen (UBC) The importance of organizational readiness for change for implementing clinical practice standards in Indonesian obstetric facilities.

2:40 – 3:00 Bill Daniel & BJ Cummings (UW) Community-based projects inform policy making and improve health equity in Seattle’s Duwamish Valley.

3:00 – 3:20: *Jaclyn Parks (SFU) Understanding the context of tobacco smoke exposure in a cohort of Canadian infants using biomarkers, questionnaires, and machine learning.

3:20 – 3:40: Farah Shroff (UBC) Better hearing health through public health approaches: filling the rhetoric to reality gap.

3:40 – 4:00: Linda Dix-Cooper (UBC) Noise by-laws: navigating public health issues and designing communities to prevent harm associated with environmental noise in mixed use commercial-residential and industrial-residential zones.

4:00 – 4:20 Refreshment and Networking Break (outside Ballroom)

4:20 – 5:45 Ignite / Lightning Session

Ballroom Chair: Perry Hystad

- *Mielle Michaux (UBC) Are childhood exposures to green space and solar vitamin D protective factors in the development of inflammatory bowel disease?
- *Tina Afshar (UBC) Relationship between the external (air) microbiome and internal (airway) microbiome in participants with COPD and healthy controls.
- Michael Young (UW) The effect of traffic-related air pollution on blood pressure: a trial of vehicle filtration.
- Jordan Brubacher (SFU) Using local climate zones in combination with NDVI to characterize greenness.
- *Kate Hosford (SFU) Mapping Vancouver's bikeway expansion and cycling to work mode share, 1996 – 2016.
- *Jaimy Fischer (SFU) Addressing cycles of inequality: key learnings from an interdisciplinary workshop on bike equity.
- *Denise Drury (UW) Sexual harassment prevention in agriculture: evaluating a worksite training program.
- *Richard Taing (UW) A welder's occupational wheeze.
- *Allyson O'Connor (UW) Burnout: Addressing a Silent Epidemic in Healthcare.
- *Erica Chavez Santos (UW) A multi-level approach to heat related illness prevention for agricultural workers.
- *Kate Hultberg (OSU) Community risk factors for post-hurricane disease outbreaks.
- *Bri Willis (UW) Perceived exposures of disaster scientists that participated in Ridgecrest earthquake reconnaissance.
- *Mira Ziolo (UBC) What do Apes have to do with it? Health and the Mountain Gorilla-Human interface.

5:45 – 7:00 Posters (Authors attend posters 6:00 – 7:00) Foyer
Authors and titles listed on page 4

No host bar, poster viewing and pre-dinner networking

7:30 – 9:30 Dinner Ballroom

After dinner special showing of video: “Preventing Sexual Harassment in Agriculture” Sarah Fish, Pacific Northwest Agricultural Safety and Health

Friday, January 10, 2020
8:00 – 8:30 Breakfast (Foyer)

8:30 – 10:10 Environmental Health 2 Valley: Chair Chelsea Himsworth	8:30 – 10:10 Occupational Health 2 – Summit: Chair Noah Sexias (UW)	8:30 – 10:10 Public health 2 Mt. Baker: Chair Farah Shroff (UBC)
<p>8:30 – 8:50: Cecilia Sierra-Heredia (SFU) Climate change and potential effects on aeroallergen levels in 13 Canadian cities.</p> <p>8:50 – 9:10: *Emily Acheson (UBC) Did climate change lead to the 1999 outbreak of <i>Cryptococcus gattii</i> on Vancouver Island?</p> <p>9:10 – 9:30: *Undarmaa Enkhbat (SFU) A randomized air purifier intervention study of prenatal air pollution exposure and social and behavioural development at two years of age.</p> <p>9:30 – 9:50: *Battsetseg Ulziikhuu (SFU) A randomized air purifier intervention study of prenatal air pollution exposure and neurocognitive development a four years of age.</p> <p>9:50 – 10:10: Debra Cherry (UW) Explaining cough and odors at a nuclear hazardous waste site: An exercise in risk communication.</p>	<p>8:30 – 8:50 Marissa Baker (UW): Radical health and safety in a shipyard.</p> <p>8:50 – 9:10: Sonja Senthanaar (UBC) Characteristics of injured immigrant workers in British Columbia.</p> <p>9:10 – 9:30: Andrea Jones (UBC) Anxiety treatment and work disability after musculoskeletal injury: consideration of a physician-based instrumental variable approach.</p> <p>9:30 – 9:50: Chris Simpson (UW) Respiratory exposures and outcomes among cannabis workers.</p> <p>9:50 – 10:10: June Spector (UW) Can conservation interventions address global climate and sustainability goals while optimizing community and occupational health?</p>	<p>8:30 – 8:50: *Ethan Zhang (UBC) Retention of early antibiotic use to childhood asthma: a scoping review.</p> <p>8:50 – 9:10: David Patrick (UBC) Declining antibiotic use and asthma incidence in children: satisfaction of the Brad-Hill criteria using evidence from population, prospective cohort and microbiota studies</p> <p>9:10 – 9:30: *John Paul Bigouette (OSU) Acute effects of temperature exposures on mortality and CVD events in the global PURE study</p> <p>9:30 – 9:50: Stephen Berzruchka (UW) Increasing mortality in the U.S. not just an opioid problem.</p> <p>9:50 – 10:10: *Emily Carpenter (SFU) Environmental justice, mental health, and Natural Disasters: A look at “The Beast”.</p>
10:10 – 10:45 Refreshment break (Foyer) & check out from hotel rooms		
10:45 – 12:15 Round table discussions Pinnacle 3&4 Chair: Karen Bartlett (UBC)		
<p>Tim Takaro (SFU) & Maya Gislason (SFU) “The role of public health in climate change mitigation and adaptation.”</p> <p>Mieke Koehoorn (UBC) & Noah Seixas (UW) “Cross border collaborations and research opportunities.”</p> <p>Esther Maas (UBC), Robert Macpherson (UBC) & Marissa Baker (UW) “Degrees to jobs ... the road well-traveled.”</p> <p>Gary Bangs (UW) & Srivani Kanamuri (UW) “Risk communication in uncertain times.”</p>		
12:15-12:30 Wrap-up and student awards Pinnacle 3&4		

OPTIONAL field trip to Maple lane farms (by pre-registration only): Bus loads from front of hotel 1:00 pm and returns ~ 5:00 pm.

POSTERS:

Thursday January 9th 5:30 – 7:00 pm Foyer: Authors attend 6:00 – 7:00 pm

- 1 OH Esther Mass (UBC)** A comprehensive picture of healthcare costs for workers with musculoskeletal disorders in British Columbia, Canada.
- 2 OH *Shanise Owens (UW)** Promoting mental wellness in the workplace: Developing a guide for workplace mental health interventions.
- 3 OH *Sana Javaheri (UBC)** Proposal for BC Ministry of energy, mines and petroleum resources' occupational exposure limit for hydrogen sulphide.
- 4 OH *Aaron Agyeman (UBC)** Field officers' exposure to radiation from technologically enhanced natural occurring radioactive materials in oil and gas industries.
- 5 OH *Michael Cashman (UW)** Hemiparesis in a seasonal grain elevator operator: Case presentation and exposure assessment.
- 6 OH *Ehsan Hemmativaghef (UBC)** Assessment of occupational exposures during laser engraving.
- 7 OH *Marine de Marken (UW)** Farm exposure and IgE levels in adult dairy workers in the Yakima Valley.
- 8 OH *Arthur Leung (UBC)** A health hazard assessment of aluminum pot lining workers for silica and noise exposures.
- 9 OH *Hanna Echt (UW)** Characterization of naturally occurring alpha-diketone exposures at a coffee roasting facility and associated café.
- 10 EH *Harry Zhuang (SFU)** Bayesian factor analysis model for epidemiological assessment of the perinatal health effects of environmental chemical mixtures in the HOME study.
- 11 EH *Natasha Vitkin (SFU)** Climate change and Lyme disease in Canada.
- 12 EH *Sigride Asseko (OSU)** Environmental exposure to high manganese concentrations in sub-Saharan Africa: Case studies of Gabon.
- 13 EH *Ingrid Jarvis (UBC)** Natural environments and perceived health in Metro Vancouver, Canada.
- 14 PH *Kwadwo Boakye (OSU)** Evaluating the role of urbanization on total and specific types of physical activity across 700 communities in 21 countries.