

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

January 5-6, 2023

DRAFT

Thursday, January 5, 2022

11:00 – 11:45 Registration

Location: Semiahmoo Pre-function

Staff: Jill Tepe, Mary Saucier, Lindsay Pysson (UW)

11:30 – 1:30 Buffet Lunch

Location: Semiahmoo Pre-function/ Blakely/Cypress

11:45 – 12:00 Welcome

Location: Blakely/Cypress

Chair: Karen Bartlett (UBC)

Bates Memorial Lecture 12:00 – 1:00

Dr. Tim Takaro, Professor Emeritus, Health Sciences, Simon Fraser University

What can we do when laws don't protect public health

Dr. Kiffer Card, Assistant Professor, Simon Fraser University

Planetary Health Curriculum

1:15-4:30 Joint session on cross cutting themes

Chair: Karen Bartlett (UBC)

Timekeeper: Chris Simpson (UW)

1:15 – 1:45 Current and Future Opportunities in Precarious Work and Work Organization

Presenters: Sonja Senthanaar (UBC) and Anita Minh (UW, UBC)

1:45 – 2:15 Climate change

Presenter: Jeremy Hess (UW)

2:15-2:30 Refreshment break

2:30 – 3:00 Wildfires
Presenter: Elena Austin (UW)

3:00 – 3:30 Health and the Built Environment: Looking to the Future
Presenter: Michael Brauer (UBC)

3:30 – 4:15 Panel discussion: Putting Research into Action
Moderator: Perry Hystad (OSU)

Panelists:

- Meghan Winters (SFU)
- Brendon Haggerty (Multnomah County Health Department)
- Shirlee Tan (Public Health – Seattle & King County)
- Sara Jones (Ashland Forest Resiliency)
- Marissa Baker (UW)
- Rad Cunningham (Washington State Department of Health)

4:15 – 4:45 Break

4:45 – 5:45 Ignite / Lightning Session

Chair: Chris Simpson

Timekeeper: Dennise Drury (UW)

1. Emma Quinn (UBC student): *Outdoor artificial light at night and sleep: moving beyond measures of light intensity*
2. Atul Aravindakshan (UBC student): *The Built Environment, Metabolomics, and Cancer Risk*
3. Robert Duffy (UBC student): *Evaluating the influence of light at night (LAN) on grip strength loss*
4. Carly Hyland (BSU): *Examination of urinary pesticide concentrations among Latino and Latina farmworkers*
5. Laura Gladson (NYU): *Respiratory health impacts of outdoor air pollution and the efficacy of local risk communication in Quito, Ecuador*
6. Sydney Gerig (UW student): *K-12 School EH&S in Washington: Policy Recommendations for Legislators*
7. Veronica Irvin (OSU): *The Be Well intervention: Translating behavioral change strategies for environmental home health hazards*
8. Sigride Asseko (OSU student): *Air Pollution Awareness and Perceptions in Africa*
9. Chun Xi (Tracy) Hu (UBC student): *Whole-Body Vibration Exposure Assessment on Rigid-Hull Inflatable Boats*
10. Orly Stampfer (UW student): *Formative evaluation of a school and childcare wildfire smoke response toolkit*

5:45 – 7:00 Poster Session

Location: Semiahmoo Pre-function/ Blakely/Cypress

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| No host bar Poster viewing and pre-dinner networking Authors and titles listed on page 3 | | |
| 7:00 – 9:30 Buffet Dinner Location: Blakely/Cypress | | |
| Friday, January 6, 2023 | | |
| 8:00 – 8:30 Breakfast Location: Semiahmoo Pre-function | | |
| 8:30 – 9:50 The Impact of Wildfires in the Pacific Northwest: Past, Present, and Future Location: Blakely/Cypress Chair: Edmund Seto (UW) Timekeeper: Elena Austin (UW) | 8:30 – 9:50 Understanding Complex Built Environment Factors Important to Health Location: Saltspring/Saturna Chair: Andrew Dannenberg (UW) Timekeeper: Perry Hystad (OSU) | 8:30 – 9:50 Environmental and Occupational Epidemiology Location: Lopez/Pender Chair: Chris Simpson (UW) Timekeeper: Mary Saucier (UW) |
| 8:30 – 8:45: Shirley Huang (UW student): <i>Network of low-cost air quality sensors for monitoring indoor, outdoor, and personal PM2.5 exposure in Seattle during the 2020 wildfire season</i> 8:45 – 9:00: Lisa Hayward (UW): <i>The Fifth Season: A Community-Led Campaign to Communicate Health Risks from Wildfire Smoke in Eastern Washington</i> 9:00– 9:15: Emily Brigham (UBC): <i>The Wildfire Smoke & Extreme Heat Action Plan Project</i> 9:15 – 9:30: Lilian Liu (UW student): <i>Personal Exposure Monitoring During Wildfire Smoke Events</i> 9:30 – 9:45: Sara Jones (Ashland Forest Resiliency): <i>SmokeWise Ashland: Protecting Public Health from Wildfire Smoke</i> | 8:30 – 8:45: Parichehr Slaimifard (OSU): <i>Co-Benefits of Built Environment (CoBE) Project: Energy savings, emissions reductions, and health and climate co-benefits of improving sustainability in the built environment</i> 8:45 – 9:00: Ofer Amram (WSU): <i>Quantifying Personal Built Environment Exposures & Health Impacts using Novel Technologies: Examples from the Washington State Twin Registry</i> 9:00 – 9:15: Emily Gemmel (UBC student): <i>Mapping neighborhood playability: equity, exposures and experiences</i> 9:15 – 9:30: Ezra Yu (UBC student): <i>The impact of the built environment on obesity and physical activity in a cohort of British Columbians</i> | 8:30 – 8:45: Cynthia Curl (Boise State University): <i>The Effect of Pesticide Spray Season and Residential Proximity to Agriculture on Glyphosate Concentrations in Pregnant Women</i> 8:45 – 9:00: Stephanie Foster (OSU student): <i>Organophosphate flame retardants in house dust and mental health outcomes among Canadian mothers: a nested prospective cohort study in CHLD</i> 9:00 – 9:15: Matt Bozigar (OSU): <i>Housing, in-home environmental exposures, and lung function in children with asthma visiting a safety net hospital</i> 9:15 – 9:30: Robert Macpherson (UBC): <i>Do regional labour market conditions matter for work disability duration? A multilevel analysis of workers' compensation claims in five Canadian provinces</i> |

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| | 9:30 – 9:45: Perry Hystad (OSU): <i>Assessing Health Impacts from Built Environment Change: Examples from the TRANSIT Accountability Study</i> | 9:30 – 9:45: Chris Simpson (UW): <i>Respiratory exposures and health effects in Cannabis workers</i> |
| 9:50-10:10 Break and check out from hotel rooms | | |
| 10:10-11:30 Precarious work & organization Location: Blakely/Cypress Chair: Mieke Koehoorn (UBC) Timekeeper: Chris McLeod (UBC) | 10:10-11:30 Climate change Location: Saltspring/Saturna Chair: Jeremy Hess (UW) Timekeeper: TBD | 10:10-11:30 Translation and Intervention Research in Environmental and Occupational Health Location: Lopez/Pender Chair: Karen Bartlett (UBC) Timekeeper: Mary Saucier (UW) |
| 10:10-10:25: Solaiman Doza (OSU student): <i>Musculoskeletal symptoms among self-employed and wage-salaried agriculture, forestry, and fishing workers in the National Health Interview Survey, 2004-2018</i> 10:25-10:40: Taryn Amberson (UW student): <i>Overview of occupational injuries among registered nurses in Washington State, 2007-2019</i> 10:40-10:55: Anya Keefe (UBC): <i>Canadian women’s experiences with PPE in the workplace</i> 10:55-11:10: Farah Shroff (UBC): <i>And Still She Rises: Policies for Improving Women’s Health for a More Equitable Post-Pandemic World</i> 11:00-11:25: Integrative discussion | 10:10-10:20: Carole Green (UW student) and Kristie Ebi (UW): <i>Global Review of Health and Climate Change: Health at COP27</i> 10:20-10:40: Jessica Yu (Stanford) & Alexi Hu (UBC student): <i>Vulnerability mapping study for BC</i> 10:40-10:55: Sam Lovell (UW student): <i>Barriers and Facilitators to Climate Action in State Public Health Agencies</i> 10:55-11:10: Judy Wu (SFU). <i>Climate Concern and Eco-anxiety in BC Youth: Findings from the Youth Development Instrument</i> 11:10-11:25 BJ Cummings (UW staff) and Alberto Rodriguez (Seattle Office of Sustainability and Environment): <i>Community-engaged research for climate-change disaster planning: the Seattle Assessment of Public Health Emergency Response (5 minutes remaining for transition/questions)</i> | 10:10-10:25: Molly Kile (OSU): <i>Oregon State University’s Center for Advancing Science, Practice, Programming and Policy in Research Translation for Children’s Environmental Health (ASP3IRE Center)</i> 10:25-10:40: Molly Mastel (UBC student): <i>Safe Inhalation Sites: air monitoring, ventilation, and worker protection</i> 10:40-10:55: Diana Ceballos (UW): <i>Pilot Testing Two Take-Home Exposure Prevention Educational Sessions with Construction Workers and their Families</i> 10:55-11:10: Kiana Kia (OSU): <i>Evaluation of a Fishermen-led Ergonomic Intervention in the Dungeness Crab Fleet</i> 11:10-11:25: Michelle Pollowitz (UW student): <i>Indigenous One Health: Connecting Traditional Ecological Knowledge and Western Science Through “the four R’s”</i> |
| 11:30-12:00 Wrap-up and student awards Chair: Chris Simpson (UW) Location: Blakely/Cypress | | |

POSTERS:
Thursday, January 5th 5:45 – 7:00 pm
Location: Blakely/Cypress
Authors attend 6:00 – 7:00 pm

1. Ashley Kathleen (OSU student): Development of an online mapping system to inform children’s environmental health translation
2. Mahdieh Bazyari (UBC student): Occupational Exposure assessment to welding fumes at construction site of the liquefied natural gas (LNG) export facility in Kitimat, British Columbia, Canada
3. Megan Blackledge (OSU student): Comparison of Mercury Concentrations in Fur and Whisker Samples from Apparently Healthy Sea Lions (*Zalophus californianus* and *Eumetopias jubatus*) from the Columbia River Basin
4. Magali Blanco (UW): Impact of mobile monitoring network design on air pollution exposure assessment models
5. Marshall Chester (UBC student): An evaluation of occupational health and safety changes to eye lens dose in the nuclear medicine and interventional departments across lower British Columbia: A prospective study
6. Robert Duffy (UBC student): Carcinogenic exposures in the workplace: Knowledge, attitudes, and behaviours of young workers
7. Xiacong Guo (UBC student): Heat-related illness and injury: Examining characteristics that place workers at greater risk in British Columbia
8. Shirley Huang (UW student): Effectiveness of portable HEPA air cleaners for reducing particulate matter exposure in congregate shelter settings in King County, WA during the COVID-19 pandemic
9. Barbara Hudson-Hanley (OSU): Prenatal Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) and Adverse Birth Outcomes in Infants: A Systematic Review and Meta-Analysis
10. Glenda Hyde (OSU): Preparing for the Cascadia Subduction Zone Event
11. Alpamys Issanov (UBC student) Machine learning to build a prognostic prediction model for lung cancer in never smokers using population-based databases from Canada and UK
12. Noah Janzing (UW student): Applying Q Methodology to Investigate Meat Producers’ Sustainability Decision-making: Inter-Disciplinary Engagement in Animal Systems (IDEAS)
13. Hallah Kassem (UBC student): A case cross-over investigation of the effects of extreme heat on pediatric health, Ontario 2005-2015

14. Sam Kenston (UBC student): The impact of the built environment on adherence to cancer prevention guidelines, cancer incidence and cancer mortality in a large cohort of Canadian adults
15. Andrew Larkin (OSU): Differences in Term Birth Weight Between Maternal Residences Upwind and Downwind of High-Traffic Roads
16. Brittany Millard-Hastings (UW student): Mandatory Industrial Insurance Coverage Exclusions: walking the high wire without a net
17. Emma Quinn (UBC student): Understanding young adults' knowledge, attitudes, and behaviours about solar ultraviolet radiation exposure in the workplace
18. Cecilia Sierra-Heredia (SFU): Access to primary care among elder im/migrants in British Columbia during the COVID-19 pandemic
19. Lianne Sheppard (UW): Characterizing UFP non-stationary mobile monitoring data for epidemiology
20. Balaji Sridhar (UW student): A Veterinarian with Bilateral Wrist Pain and Incidentally Discovered Strongyloidiasis
21. Katherine White (UBC student): The role of built environment and housing characteristics on indoor heat exposure and social isolation of older adults
22. Sabbir Hossain (UBC student): Built environment, health behaviours and multimorbidity in British Columbia: An evidence from BC Generation Project (BCGP)
23. Leah Rosenkrantz (National Collaborating Centre for Environmental Health): The impacts of climate change on West Nile Virus vectors in Canada
24. Helen Wu (UBC student): The Hidden Dangers of Nanomaterials