



University of Washington/University of BC/Simon Fraser University/Oregon State University/Boise State University
Annual Cascadia Symposium on Environmental, Occupational, and Population Health
Impacts of a Changing Climate on Worker Health, Vulnerable Populations, and Infectious Disease.

Thursday, January 09, 2025

11:00a – 11:45a Registration

Location: Semiahmoo Pre-function Area (Outside of Blakely/Cypress)

11:30a – 1:30a Buffet Lunch

Location: Semiahmoo Pre-function Area & Blakely/Cypress

11:45a – 12:00p Welcome

Location: Blakely/Cypress

Chair: Christopher Simpson

12:00p – 1:00p David V. Bates Memorial Lecture:

Vivek Shandas Title: *Sweat Equity: An ecology of everyday life on a warming planet*

Timekeeper: Taryn Amberson

1:00p – 1:20p Break

1:20p – 4:15p Joint Session on Cross Cutting Themes

Chair: Chris McLeod

Timekeeper: Alexi T. Hu

1:20p – 2:00p Impacts of a Changing Climate on Worker Health

Session Chair: Chris McLeod (UBC) and Cynthia Curl (BSU)

Cheryl Peters (UBC): *The Growing Threat of Climate Change to Worker Health in Canada*

Elena Austin (UW): *Advancing Research on the Health Impacts of Climate Disasters on Worker Populations; Opportunities and Challenges*

2:00p - 2:40p Impacts of a Changing Climate on Vulnerable Populations

Session Chair: Ofer Amram (WSU)

Stephanie Cleland (SFU): *Childhood in a Changing Climate: The Health Effects of Early Life Exposure to Heat and Smoke*

Joan Casey (UW): *Rising seas, temperatures, and inequities: hot takes on health and justice in a changing climate*

2:40p – 3:20p Impacts of a Changing Climate on Infectious Disease

Session Chair: Christopher Simpson

Peter Rabinowitz (UW): *Climate change and infectious disease: implications for workers*

Renee Codsi (UW): *Climate Change: drivers of migration and infectious disease*

3:20p – 4:00p Panel Discussion on Crosscutting Themes

Moderator: Chris McLeod (UBC)

Timekeeper: Alexi T. Hu

Panelists:

- Cheryl Peters (UBC)
- Elena Austin (UW)
- Stephanie Cleland (SFU)
- Joan Casey (UW)
- Peter Rabinowitz (UW)
- Renee Codsi (UW)

4:00p – 4:15p Break

4:15p – 5:30p Ignite/Lightning

Chair: Chris Buse

Timekeeper: Raine Abad

1. Hallah Kassem (UW student): *Community engagement in Indigenous Food systems contamination studies: A scoping review*
2. Spencer Lee (UBC student): *Mid-term Projections of Fine Particulate Matter (PM2.5) Exposure from Anthropogenic and Wildfire Sources in British Columbia, Canada*
3. Cecilia Martindale (UW student): *Exploring co-exposures of temperature and glyphosate in the United States*
4. Madalyn Nones (OSU student): *Community Contexts of Health: A Comparative Study of Health Risk Factors and Outcomes Across 774 Communities in 25 Countries in the PURE Study*
5. Harman Sandhu (UBC student): *Investigating differences in return-to-work outcomes for workers with work-related chronic pain and concurrent psychological injuries in British Columbia*
6. Sydney Spencer (UW student): *Birth Experiences of U.S. South Asian Mothers on Employer-Sponsored Health Insurance*
7. Meredith Spivak (BSU Student): *Systematic Review of Non-Invasive Biomonitoring of Persistent Pesticides in Wildlife: The Use of Feathers and Fur to Inform a One Health Sentinel Surveillance System*
8. Shayna Uhryn (UBC student): *Comparison of Different Levels of Woodsmoke Exposure on Lung Health.*
9. Lauren Blair Wilner (UW student): *The National Flood Insurance Program (NFIP): spatial distribution of designations, policies, and claims across the United States*

5:45p – 7:00p Poster Session

Location: Blakely/Cypress & Pre-function Area

Poster viewing and Pre-dinner Networking (*Authors and Titles listed on page 7-8*)

No host bar. *Snacks sponsored by the Pacific Northwest Center for Occupational Safety and Health (PNASH) and the Northwest Center for Occupational Health and Safety (NWCOSHS)*

7:00p – 9:00p Buffet Dinner

Location: Semiahmoo Pre-function Area & Blakely/Cypress

9:00p – 11:00p Networking and Social

Location: Packers Bar

Friday, January 10, 2025

8:00 – 8:30 Breakfast

Location: Semiahmoo Pre-function Area & Blakely/Cypress

8:30 – 9:50 Wildfire Smoke: Exposure and Health Location: Blakely/Cypress Chair: Michael Brauer Timekeeper: Yanbo Li	8:30 – 9:50 Climate & Health Location: Saltspring/Saturna Chair: Chris Buse Timekeeper: Judy Wu	8:30 – 9:50 Community Health Location: Lopez/Pender Chair: Ofer Amram Timekeeper: Anna Ivanov
<p>8:30 – 8:45: Mary Crocker (UW): <i>Engaging Stakeholders to Design a Wildfire Smoke Action Plan for Children with Asthma</i></p> <p>8:45 – 9:00: Logan Dearborn (UW student): <i>Joint effects of wildfire smoke and extreme heat on preterm births in California (2018-2020)</i></p> <p>9:00 – 9:15: Stephanie Foster (OSU): <i>Exposures at Public Schools and Childcare Centers in the United States and Implications for Children’s Health</i></p> <p>9:15 – 9:30: Stepahanie Cleland (SFU): <i>Developing Robust Metrics to Characterize Prolonged, Episodic Exposure to Wildfire Smoke for Studies on Chronic Health Outcomes</i></p> <p>9:30 – 9:45: Rachel Sklar (UW): <i>Renovation Status and Cooling Type Modify the Association Between Wildfire Smoke Exposure and Preterm Birth Risk in California</i></p>	<p>8:30 – 8:45: Chris Buse (SFU): <i>Health impacts of climate change on health system practitioners across British Columbia, Canada</i></p> <p>8:45 – 9:00: Catherine Karr (UW): <i>Environmental Influences on Child Health Outcomes (ECHO) - Yakima: Update and opportunities</i></p> <p>9:00 – 9:15: Kaylie Higgs (SFU): <i>Addressing the Mental Health Impacts of Climate Change in British Columbia: A Multi-Component Government-Community-Academic Intervention</i></p> <p>9:15 – 9:30: Judy Wu (SFU student): <i>Climate & health Regional Differences in Eco-anxiety Among British Columbian Youth: Findings from the 2024 Youth Development Instrument</i></p> <p>9:30 – 9:45: Dan Trifone (Multnomah County Health Department): <i>Retrospective Evaluation of the 2023 Regional Climate Health Monitoring Report: Improving Processes for Future Iterations</i></p>	<p>8:30 – 8:45: Kiffer Cards (SFU): <i>Addressing "Lonelygenic" Environments Through Evidence-Based Public Health Guidelines for Social Connection</i></p> <p>8:45 – 9:00: Clarissa Carlos (UW student): <i>Evaluating a Participatory Research Study in an Environmental Justice Community: Using Rapid Extraction Analysis to Enhance Partnership and Increase Local Empowerment</i></p> <p>9:00 – 9:15: Anna Ivanov (WSU student): <i>The Environmental Health Disparities Map: The Role of the Food Environment in Advancing Health Equity in Washington State</i></p> <p>9:15 – 9:30: Margaret McGregor (UBC): <i>Integrating Environmental Justice Approaches into Unconventional Oil and Gas Development and Health Outcomes Research – How Are We Doing?</i></p> <p>9:30 – 9:45: Panel Discussion: “Community, Health, and Solutions: Bridging Research and Action in a Changing Climate”</p>

9:50 – 10:10 Break and check out from hotel rooms

<p>10:10 – 11:30 Heat and Health in a changing climate</p> <p>Location: Blakely/Cypress Chair: Perry Hystad Timekeeper: Madalyn Nones</p>	<p>10:10 – 11:30 Occupational Health</p> <p>Location: Saltspring/Saturna Chair: Cynnie Curl Timekeeper: Meredith Spivak</p>	<p>10:10 – 11:30 Environmental Health and Epidemiology</p> <p>Location: Lopez/Pender Chair: Chris McLeod Timekeeper: Hilary McLeland-Wieser</p>
<p>10:10 – 10:25: Kirstin Yeomans (OSU Student): <i>Acute temperature-related mortality and hospitalizations in heart failure patients: Evidence from the Global Congestive Heart Failure Registry</i></p> <p>10:25 – 10:40: Cat Hartwell (Public Health - Seattle & King County): <i>Co-Designing Heat Adaptation Solutions Through Community-Based Participatory Model-Building in King County</i></p> <p>10:40 – 10:55: Sarah Henderson (BCCDC): <i>Which medications influence the risk of mortality during extreme heat events? A novel approach using machine learning</i></p> <p>10:55 – 11:25: Panel Discussion: “Heat, Health, and Solutions: Bridging Research and Action in a Changing Climate”</p>	<p>10:10 – 10:25: Cheryl Peters (UBC): <i>Overrepresentation of New Workers in Jobs with Multiple Carcinogen Exposures in Canada</i></p> <p>10:25 – 10:40: Emily Heer (UBC): <i>Extreme weather events caused by climate change: Estimating the prevalence of at-risk workers in Canada</i></p> <p>10:40 – 10:55: Paul Demers (UBC): <i>Potential for an Asbestos Exposure Registry to Contribute to Primary and Secondary Prevention</i></p> <p>10:55 – 11:10: Natalie Rejto (UW postdoc): <i>Safety and Health Investment Project: Workplace Infection Control on Dairy farms</i></p> <p>11:10 – 11:25: Panel Discussion: “Occupational Exposures, Health, and Solutions: Bridging Research and Action in a Changing Climate”</p>	<p>10:10 – 10:25: Carson Mowrer (OSU student): <i>Predicting Noise at High Spatial Resolution from a Systematic Measurement Campaign in Portland, Oregon</i></p> <p>10:25 – 10:40: Renee Codsí (UW Student): <i>Acceptance of tongue swabs for tuberculosis screening among migrants: a qualitative study</i></p> <p>10:40 – 10:55: Corbin Schuster (OSU): <i>Community-Centered Approaches to Understanding Barriers to Protection Against Wildfire Smoke Exposure Among Vulnerable Populations in the Yakima Valley</i></p> <p>10:55 – 11:10: Christine Loftus (UW): <i>Barriers and facilitators of early-life wildfire smoke protection in a rural, agricultural community: A community-led research study</i></p> <p>11:10 – 11:25: Marissa Childs (UW): <i>Climate & health Climate warming is expanding dengue burden in the Americas and Asia</i></p>

11:30-12:30 Student Award Winner Presentations and Wrap-up

Location: Blakely/Cypress

Chair: Christopher Simpson

Timekeeper: Hunt Solaro

11:30 – 11:40 Alexi T. Hu (UBC student): *Identifying Vulnerable Populations to Extreme Heat Using a Cumulative Heat Exposure Threshold Algorithm in Western Metro Vancouver (2008-2023)*

11:40 – 11:50 Callan Krevanko (UW student): *Cannabis sensitization and allergy in cannabis industry workers, recreational users, and non-users*

11:50 – 12:00 Yanbo Li (UBC student): *Wildfire smoke-specific PM2.5 and SARS-CoV-2 test positivity (infections) and hospitalization risks through 2020-21 wildfire periods in British Columbia, Canada*

Posters

Thursday, January 9, 5:45 – 7:00pm

Authors attend: 6:00 – 7:00pm

Location: Blakely/Cypress

1. Prem Gundarah (SFU student): *Building Resilience to Emerging Airborne Threats and Heat Events: The BREATHE Project*
2. Lilian Liu (UW student): *A decision-support framework during wildfire smoke: rapid questionnaire design for perishable wildfire smoke exposure and health outcomes data collection*
3. Laura Minet (U.Vic.): *Analysis of Flaring Activities at Liquefied Natural Gas (LNG) Export Facilities Worldwide*
4. Laura Minet (U.Vic.): *Analyzing Effective Procedures During Wildfire Smoke Events Through Intervention Field Tests*
5. Carson Mowrer (OSU student): *Residential Radon Exposure and Brain and Central Nervous System Cancer Risk in the Women's Health Initiative 1993 to Mid-2024*
6. Catherine Slavik (U. Oregon): *Seeing is believing?: How viewing radon risk maps impacts residential testing intentions*
7. Raine Abad (SFU student): *Opportunities for Open Science and Data to Support Cumulative Effects Assessment: An environmental scan of Canadian Literature*
8. Alexandra Beukens (SFU student): *AMR Stewardship in action: A policy scan on antimicrobial use in BC and Ontario dairy industries*
9. Chris Buse (SFU): *Risk communication for neglected tropical disease elimination and reduction in the Arusha and Monduli districts of the United Republic of Tanzania: A qualitative Study*
10. Diana Ceballos (UW): *Testing a Lead Take-Home Intervention in the Homes of Construction Workers: RECLEAN Pilot Study*
11. Christine Chen (UBC student): *The Wildfire Age: Genetic Susceptibility to Air Pollution Health Effects in Children*
12. Yeon Cheong (UW student): *Sustainable aviation fuel impacts on aircraft ultrafine particle emissions and community health implications*
13. Autumn Dennistoun (UW student): *Factors Related to Substance Use Awareness in Washington State Commercial Fishermen*
14. Abigail Gilbert (UW student): *Characterizing Zinc, Lead, and Mercury Concentrations and Variability in Human Hair Samples using Laser Ablation ICP-MS.*
15. Jonika Hash (UW student): *A Pilot Project Examining Ultrafine Particulates, Sleep, and Epigenetic Clocks Among an Underserved Sample of Mother-Child Dyads*
16. Hilary McLeland-Wieser (UW student): *Municipality Level Dense Vegetation and Dengue Incidence in Colombia*
17. Rica Monis (UW student): *Assessing the Seaweed Genus *Ulva*'s Carbon and Nutrient Profile as a Potential Soil Amendment for Enhanced Agricultural Productivity*
18. Abdullah Al Nayeem (OSU student): *Estimating the contributions of different tourism sectors to NO_x and PM 2.5 emissions in the Netherlands*

19. Katharine Teigen (UW student): *The Mental Health Impacts of Wildfire Exposure: A Scoping Review and Critical Evaluation of the Quantitative Evidence*
20. Katherine White (UBC student): *Interdisciplinary and mixed methods approaches to extreme heat: a community participatory study of older adults' experiences in Metro Vancouver*
21. Judy Wu (SFU student): *Eco-emotions in Children and Adolescents: A rapid review of qualitative literature*
22. Ingrid Jarvis (UBC postdoc): *Neighborhood playability and early childhood development in Metro Vancouver, Canada*
23. Solmaz Amiri (WSU): *Impact of Mobility and Nature on Mental Health during the Covid-19 Pandemic: Leveraging Google Location History*
24. Amarachi Ezeocha (SFU student): *One Health Communications Platform: Assessing the Information Needs of Health Practitioners*