

## A. PERSONAL STATEMENT

I am an Environmental & Occupational Health (EOH) instructor in the College of Public Health and Human Sciences at Oregon State University, Corvallis, Oregon, USA. I am also the EOH undergraduate minor coordinator. My interests focus on evaluating EOH policies to protect human health, and translating EOH research to prepare the health workforce of the future. I am especially interested in evaluating the effectiveness of chemical policies to control prenatal/early-life environmental exposures associated with adverse developmental outcomes, and evaluating the effects of parental occupational take-home exposures on children's health.

## B. EDUCATION AND EXPERIENCE

### Education

- PhD, Environmental & Occupational Health, Oregon State University 2022
- Graduate Certificate in College & University Teaching, Oregon State University 2018
- MPH, Environmental & Occupational Health, Oregon State University 2015
- B.S., General Science (Environmental Chemistry), Oregon State University 1995

### Professional Experience

- Instructor, Environmental & Occupational Health, Oregon State University
  - EOH Undergraduate Minor Coordinator Aug. 2022 - present
- Research Associate, Oregon Institute of Occupational Health Sciences Jan. 2020 – Aug. 2022
- Teaching Assistant/Instructor of Record, Oregon State University Sept. 2016 – Mar. 2020
- Internship with Director of Environmental Health & Safety, OSU Jan-May 2015
- Senior Chemical Regulatory & Compliance Program Manager, HP Inc. 2005-2016
- European Chemical Compliance Program Manager, HP Inc. Ireland 2001-2005
- R & D Laboratories Env. Health & Safety Programs Manager, HP Inc. 1993-2001

## C. TEACHING EXPERIENCE, OTHER

### Credit Instruction – Instructor of Record

| Quarter     | Course #        | Course Title                                  | Credits | # of Students | Student Evaluation of Teaching Score / College Score* (response %) |
|-------------|-----------------|---|---------|---------------|--|
| W 2020      | H385 online     |   | 3       | 35            | 5.7 / 5.5 (37%)  |
| Summer 2019 | H385 online     |   | 3       | 38            | 5.5 / 5.4 (15.8%)  |
| Sp 2019     | H385 in-person  | Occupational Safety & Health Standards & Laws | 3       | 18            | 6.0 / 5.3 (28%)  |
| W 2019      | H385 online     |   | 3       | 31            | 5.5 / 5.1 (26%)  |
| F 2018      | H385 online     |   | 3       | 25            | 5.3 / 4.9 (60%)  |
| W 2018      | H385 online     |   | 3       | 42            | 4.7 / 4.8 (28%)  |
| F 2017      | H385 online     |   | 3       | 28            | 5.3 / 4.9 (42%)  |
| W 2017      | H425 online     |   | 3       | 44            | 4.9 / 4.7 (61%)  |
| W 2017      | H425 Recitation | Foundations of Epidemiology                   | 3       | 20            | 5.0 / 4.7 (65%)  |
| F 2016      | H 425 online    |   | 3       | 11            | 4.8 / 4.8 (68%)  |
| F 2016      | H425 Recitation |   | 3       | 19            | 5.0 / 4.8 (45%)  |

\* Based on the Student Evaluation of Teaching survey question: "The instructor's contribution to the course was \_\_\_\_."

Score is mean value on a scale of 1 (lowest) to 5 (highest). Response % based on the number of students who responded to survey per final course enrollment.

## Supervising Oregon State University Student Interns

| <i>Date</i>     | <i>Company</i> | <i>Description</i>  |
|-----------------|----------------|---|
| June – Aug 2014 | HP Inc.        | Under my direct supervision, Anna Sherman, graduate student in Public Policy, evaluated materials used HP consumer products using GreenScreen™, a tool developed by Clean Production Action to identify the hazard characteristic profile of chemicals. |
| June – Aug 2015 | HP Inc.        | Under my direct supervision, Barrett Welch, graduate student in Public Health, used GreenScreen™ to identify safer alternatives in current material sets used in consumer products.   |

## Guest Lectures / Non-Credit Instruction

| <i>Quarter</i> | <i>Course #</i>         | <i>Course Title</i>  | <i>Duration</i> |
|----------------|-------------------------|--|-----------------|
| F 2015         | H 583 - OSU             | Environmental and Occupational Health & Safety Management (Course Professor: Anthony Veltri) | One lecture     |
| W 2018         | H612 - OSU              | Doctoral Seminar in Public Health: Research and Practice (Course Professor: Veronica Irvin)  | One lecture     |
| W 2022         | ESHH 521/621 – OHSU-PSU | Occupational Health (Course Professor: Saurabh Thosar)                                       | One lecture     |

## Additional Instruction

| <i>Date</i>    | <i>Course Format</i>   | <i>Course Title</i>   | <i>Duration</i>  |
|----------------|------------------------|---|------------------|
| June 2006      | Workshop, HP Inc.      | The EU Directive on Restriction of Hazardous Substances (RoHS) in Electronics. What you need to know. | One day workshop |
| April 2008     | Workshop, HP Inc.      | The New EU Chemical Management Regulation: REACh. What you need to know.                              | Two-day workshop |
| September 2010 | Online course, HP Inc. | Being Deliberate about Sustainability: Green Chemistry & Life-Cycle Assessment.                       | Two lectures     |
| December 2011  | Online course, HP Inc. | HP's Chemical Policy: Applying a Precautionary Approach.  | One lecture      |
| May 2014       | Online course, HP Inc. | Applying Green Screen to Reduce Hazardous Chemical Footprint.   | Two lectures     |
| January 2016   | Online course, HP Inc. | Changes to the U.S. Toxic Substances Control Act (TSCA).  | Two lectures     |

## Curriculum Development

- Course development was project for teaching certificate: H 4XX/H5XX: Public Health Context of Environmental & Social Governance (ESG). Online or in-person instruction.
  - This 3-credit course would be designed for Business, Environmental Science, Public Policy, Engineering and Public Health majors and minors, with a recommended class size up to 40 students.
  - Introduces students to social and environmental responsibility (SER) principles in public health context, with a focus on “health in all policies” approach.
  - Identifies and evaluates the conflicting goals and trade-offs necessary to achieve a balanced and transparent triple bottom line of profit, people, and planet, in a contemporary global context.
  - Practical examples and case studies examine the intersectionality of stakeholder priorities and resource availability/ownership that drive market forces through a human health and equity lens.

## D. SCHOLARSHIP

### Refereed Publications

1. **Hudson-Hanley, B.**, Smit, E., Branscum, A., Hystad, P., & Kile, M. L. (2021). Trends in Urinary Metabolites of Polycyclic Aromatic Hydrocarbons (PAHs) in the Non-Smoking U.S. Population, NHANES 2001-2014. *Chemosphere*, 276: 130211.

2. **Hudson-Hanley, B.**, Irvin, V., Flay, B., MacDonald, M. & Kile, M. L. (2018). Prenatal PBDE Exposure and Neurodevelopment in Children 7 Years Old and Younger: A Systematic Review and Meta-analysis. *Current Epidemiology Reports*. 5: 46-59.

### Pending Publications

1. **Hudson-Hanley, B.**, Smit, E., Branscum, A., Hystad, P., & Kile, M. L. Prenatal Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) and Adverse Birth Outcomes in Infants: A Systematic Review and Meta-Analysis. Expected December 2022 submittal date to *Environmental Epidemiology* or *Environment International*.
2. **Hudson-Hanley, B.**, Smit, E., Branscum, A., Hystad, P., & Kile, M. L. Prenatal and Early-Life Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) and Adverse Neurodevelopment Outcomes in Children: A Systematic Review and Meta-Analysis. Expected January 2022 submittal date to *Environmental Epidemiology* or *Environment International*.

### Reports

1. **Hanley, B. A.**, Terhune, S. C. et.al., A Step Towards Closing the Loop: Implementing DfE Criteria to Invent Product-Specific De-Manufacturing Capability, International Symposium on Electronics & the Environment, May 2002.

### Other Presentations

- Chartres, N., Woodruff, T., Whaley, P., Lam, J., & **Hudson-Hanley, B.** (2022). "How to Conduct Systematic Reviews and Meta-Analyses to Improve Environmental Health Policy and Decision-Making". Workshop at International Society for Environmental Epidemiology (ISEE) annual meeting. Athens, Greece.
- **Hanley, B.** (2013). Mainstreaming Green Chemistry. Green Chemistry & Commerce Council annual meeting. New Brunswick, NJ.
- **Hanley, B.** (2011). Delivering Business Value with Sustainability. Green Chemistry & Commerce Council annual meeting. Cupertino, CA.
- **Hanley, B.** (2008). Conference Kick-Off/Opening Remarks. Green Chemistry & Commerce Council annual meeting. Beaverton, OR.

### Accepted Abstracts (first author)

1. 2022. International Society of Environmental Epidemiology, 34<sup>th</sup> annual meeting, hybrid format (poster).
2. 2022. International Society of Environmental Epidemiology, 34<sup>th</sup> annual meeting, hybrid format (oral presentation).
3. 2021. International Society of Exposure Science, 21<sup>st</sup> annual meeting, virtual format (poster). First place (tie) for student poster award.
4. 2019. Oregon Public Health Association Annual Meeting, Corvallis, OR (poster).
5. 2019. Society of Pediatric & Perinatal Epidemiologic Research (SPER). Minneapolis, MN (poster).
6. 2018. Cascadia International Environmental, Occupational & Population Health Symposium. Abbotsford, Canada (poster).
7. 2017. Oregon Public Health Association Annual Meeting. Corvallis, OR (presentation).

## E. Service to the Profession

### Invited Presentations

- "Prenatal PBDE Exposure and Neurodevelopment in Children 7 Years Old and Younger: A Systematic Review and Meta-analysis". Oregon Public Health Association Annual Meeting. October 2017.

### Professional Membership

- International Society of Environmental Epidemiology (ISEE). 2015-present.
- International Society of Exposure Science (ISES). 2015-present.
- Oregon Public Health Association (OPHA). 2015-present.

### External Committees/Advisory Boards

- Oregon Construction Advisory Committee, 2020-present.
- Oregon Forest Activities Advisory Committee, 2020-present.
- OPHA Policy and Advocacy Committee, 2018-2022.

- Benton County Home, Opportunity, Planning & Equity (HOPE) Advisory Board, 2020-present.
- Benton County (Oregon) Public Health & Planning Advisory Committee, 2016–2019.
- Student Health Advisory Board, Oregon State University, 2017–2019.

### **Other Service to the Profession**

- Abstract reviewer for ISEE 2022 annual meeting.
- Abstract reviewer for ISEE 2021 annual meeting.
- Abstract reviewer for SER 2019 annual meeting.
- Poster session judge, ISEE 2018 annual meeting.
- Session chair, ISEE 2018 annual meeting.
- Conference assistant, 2018 Tribal Environmental Health Summit.

### **Service to the Community**

- Tutor junior high school students in mathematics, 2014-2016.
- Tutor high school girls in STEM, Sept. 2019 – June 2020.

### **Service to the University**

- Union steward representing College of Public Health & Human Sciences graduate students, 2016-2018.
- Coordination of guest lecturer visit and presentation, College of Public Health, February 2019.

## **F. Honors and Awards**

### **Scholarship Awards**

- American Association of University Women (AAUW) American Dissertation Fellowship, 2020-2021.
- Warren & Frederica Schad Scholarship recipient, 2019-2020.
- Oregon Women in Higher Education travel award recipient, 2018.
- Liam Wood Memorial Scholarship recipient, 2016-2017.

### **Other Awards**

- Green Chemistry Champion, 2013. Presented by the Green Chemistry & Commerce Council. New Brunswick, NJ.