Roxane L. Strobel, MPH
Exposure Scientist

Paustenbach and Associates
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Education and Degrees Earned

- Master of Public Health - Environmental Health Sciences, Industrial Hygiene/Exposure Science, The University of Michigan, 2020
- Bachelor of Science - Ecology, Evolution, and Biodiversity, The University of Michigan, 2017

Experience Summary (Professional Career)

Paustenbach and Associates
Exposure Scientist
Jackson, Wyoming
August 2021- Present

- Consultant in industrial hygiene, occupational health, toxicology, risk assessment, state of the art, and safety.
- Currently focused on asbestos, airborne particles, silica, radionuclides, industrial hygiene, and environmental toxicology (over a wide range of issues).
- Involved in litigation work, interpreting toxicological studies, conducting exposure assessments, assessing mathematical models for dose-response curves, and characterizing risks posed by chemicals in the environment.

Bechtel Corporation
Industrial Hygienist
Richland, WA
August 2020 - August 2021

- Performed exposure assessments for novel startup testing and operating procedures for work involving glass forming reagents, analytical laboratory reagents, and vitrification melters.
- Investigated 45 employee standard threshold shifts in hearing by performing employee interviews and noise dosimetry, integrating historical noise data, and working closely with stakeholders to improve the site Hearing Conservation Program.
- Directed personal, area, and environmental sampling to evaluate efficacy of work controls to mitigate employee exposures to crystalline respirable silica, welding fumes, isocyanates, and solvents.

Bechtel Corporation
Industrial Hygiene Intern
Waynesboro, GA
June 2019 - August 2019

- Conducted welding fume exposure assessment that included: creating a detailed sampling survey, performing personal air sampling, and statistically analyzing and interpreting air sampling results.
- Created eleven Similarly Exposed Groups for welding processes to efficiently enact appropriate mitigation and monitoring efforts for more than 8,000 craft workers.

Key Projects (Partial List)

1. **Analysis of historical occupational asbestos data in steel manufacturing facilities.** Various claims associated with exposure to allegedly asbestos-containing products including insulation, transite, gaskets, packing, clutches, brakes, and electrical components, and protective clothing garments, among other materials. Analyzed large corporate data sets to complete exposure assessments to examine past worker exposure records and the potential for given product(s) to yield health effects at exposure levels likely experienced by users and/or bystanders. (2021)

2. **Assessment and control of chemical, physical, and biological exposures associated with construction and operation of mixed waste vitrification facility.** Performed exposure assessments and enacted appropriate controls for various occupational exposures presented by the construction and operation of a mixed waste vitrification facility. Chemicals of concern included crystalline silica, isocyanates, volatile organic compounds, and heavy metals. (2020 - 2021)

3. **Examination of risks present to high school teachers teaching in classrooms during the Covid-19 pandemic.** Performed a preliminary analysis of potential human health risks associated with in-class learning during the Covid-19 pandemic and the mitigating actions that could be considered to control the risk. (2020)

4. **Evaluation of exposures associated with nail salon environments and potential for health effects following work in such environments.** Worked with nail salon owners and employees to assess the hazards present in the workplace (biological, chemical, and physical). Identified exposures of concern and worked collaboratively to create marketable solutions. (2019 - 2020)

5. **Assessment of occupational and non-occupational exposures to formaldehyde from laminate wood products, including the potential for such exposures to yield health effects and a cost benefit analysis of potential laminate alternatives.** Performed a risk assessment of formaldehyde exposure to floor installers and residents of the home, which included modeling formaldehyde and alternative chemical exposures over different time periods (10 days, 50 days, and 15 years) and examining the possible health effects to workers and residents based on these modeled exposures. Based on these findings, a cost benefit was performed integrating policy measures surrounding composite wood products sale and use in various countries. (2019)

Professional Honors/Awards

- Michigan Industrial Hygiene Society Award recipient in 2020
- American Industrial Hygiene Foundation Ralph G. Smith Scholarship and General Scholarship recipient in 2019
- NIOSH Education and Research Center Grant recipient in 2019 and 2020

Membership and Service to Professional Societies

- American Industrial Hygiene Association
    - Current National member and Rocky Mountain Section member
- American Conference of Governmental Industrial Hygienists
    - Current voting member