

Exponent®
Engineering & Scientific Consulting

Andrea Tineo, M.P.H.

Senior Scientist | Health Sciences
Oakland
+1-510-268-5034 | atineo@exponent.com

Professional Profile

Ms. Tineo is an environmental health scientist who specializes in industrial hygiene, occupational health and exposure assessment. Her work at Exponent focuses on indoor environmental quality and the exposure evaluations of consumer products. She has contributed industrial hygiene research, litigation, and analysis across a range of exposures, including asbestos, mold, talc, benzene, carbon monoxide, VOCs, per-and polyfluoroalkyl substances (PFAS), consumer products, and pharmaceuticals.

Ms. Tineo has conducted chemical and physical exposure assessments (e.g., mold, asbestos, fire residues, carbon monoxide, lead, BTEX, noise, volatile organic compounds (VOCs), and heat) qualitative and quantitative data analysis, literature reviews, and also has experience developing injury and illness prevention programs. Ms. Tineo also supports designing studies to assess potential exposure to consumer and personal care products, including the evaluation of lead, cadmium, phthalates, diethanolamine (DEA), bisphenol A (BPA), bisphenol S (BPS), and PFAS. Ms. Tineo has conducted sampling to evaluate Proposition 65 claims to address dermal exposure, and incidental ingestion associated with hand to mouth activities from numerous consumer products.

She holds a Master of Public Health from the University of California, Berkeley with a concentration in Industrial Hygiene. Her master's thesis focused on evaluating the use of wearable technology to mitigate occupational heat stress through continuous personal and physiological monitoring. She received her B.S. in Biology and B.A. in Anthropology from St. Mary's College of Maryland.

Academic Credentials & Professional Honors

M.P.H., Public Health, University of California, Berkeley, 2023

B.S., Biology and Anthropology, St. Mary's College of Maryland, 2018

Dr. Charles H. Powell Award, American Industrial Hygiene Association – Northern California Section (2022)

NIOSH Industrial Hygiene Traineeship (2021-2023)

Kaiser Permanente Scholar, University of California, Berkeley (2021-2023)

Prior Experience

Research Analyst, Heat Stress Monitoring, 2022-2023

Occupational Hygiene Intern, Chevron, 2022

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Program Coordinator, Ecology Center, 2019-2021

Professional Affiliations

American Industrial Hygiene Association (member)

American Industrial Hygiene Association, Northern California Section (Board Director) 2024-Present

Women in Environment San Francisco Bay Area Chapter, Treasurer 2025-Present

Publications

Stewart, M., Tineo, A., Woodrow, B., Wasik, M., Chan, S. (2023). Continuous personal monitoring and personalized hydration recommendations with wearable sweat sensors to prevent occupational heat stress. In: Waldemar Karwowski and Tareq Ahram (eds) Artificial Intelligence, Social Computing and Wearable Technologies. AHFE (2023) International Conference. AHFE Open Access, vol 113. AHFE International, USA. http://doi.org/10.54941/ahfe1004205

Project Experience

Industrial Hygiene and Occupational Health:

Evaluated single-family houses, apartment buildings, office buildings, and other commercial spaces for concerns about contamination and potential health effects associated with asbestos, fire residues, carbon monoxide, environmental molds, and other indoor environmental contaminants.

Lead in-field sample collection to characterize worker exposures to asbestos and lead during various residential maintenance tasks.

Monitored oil refinery workers for benzene, toluene, ethylene, xylene, hydrogen sulfide, and noise in accordance with company annual monitoring plan.

Conducted naproxen surrogate testing to assess potential worker exposure and equipment performance through simulated handling of potent compounds for a pharmaceutical manufacturer.

Summarized and described field-based, stud trial data in a publication from wearable Connected Hydration patches designed by a biotechnology company. Delivered training and education to participants of field-based heat stress wearable trial.

Conducted a job analysis and developed a report providing recommendations to reduce musculoskeletal risks for workers engaging in lift, upper extremity, and manual material handling tasks in a food-processing facility.

Exposure Evaluations and Consumer Products:

Conducted Proposition 65 evaluations assessing potential human exposure to various chemicals including diethanolamine (DEA), lead, cadmium, phthalates, BPA, BPS, PFOA/PFAS, and titanium dioxide associated with various products including jewelry, clothing, sportswear, cookware, tableware, appliances, and personal care products.

Conducted exposure simulation to evaluate potential exposures to respirable crystalline silica during simulated product use of paint products.

Litigation Support:

Reviewed discovery documentation, summarized exposure history, and developed exposure assessment calculations in development of various expert reports for claims related to indoor environmental quality issues including mold, asbestos, silica, PFOA/ PFAS, benzene, carbon monoxide, and other volatile organic compounds. Described the frequency and duration of exposure and relevant risk factors.