



PROFESSIONAL PROFILE



Lauren Gloekler, MEM

Senior Scientist I

CONTACT INFORMATION

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EDUCATION

Master of Environmental
Management (MEM),
Ecotoxicology and
Environmental Health, Duke
University, 2013

Bachelor of Science, Biology,
Minor in Chemistry,
University of Texas, 2008

EXPERIENCE SUMMARY

Respected and motivated science professional with almost eleven years of experience in risk assessment and toxicology consulting and project management. Her career has focused on the assessment of the hazards, potential exposure, and risks associated with chemicals in the environment, workplace, and consumer products and risk of health effects due to these exposures. Lauren has prior experience in a variety of subject areas, including human health risk assessment, litigation support, consumer product safety assessment, regulatory support, and dermal sampling and modeling. Highly skilled at communication, writing, presenting, and relationship building with clients and peers. She joined Roux's Long Beach office as a Senior Scientist in June 2024.

TECHNICAL SPECIALTIES

- Human health risk assessment
- Occupational and environmental exposure assessment
- Dermal exposure assessment and modeling
- USEPA Toxic Substances Control Act (TSCA) support
- Consumer product safety assessment and evaluation
- Toxic tort and chemical exposure litigation support

REPRESENTATIVE PROJECTS

Regulatory

- **TSCA Occupational Inhalation Exposure Assessment (ChemRisk).** Provided regulatory and technical support to two consortia in the design and oversight of air method development and validation, development of a sampling strategy submission to U.S. EPA, and management of occupational air sampling campaigns at numerous chemical processing facilities in support of TSCA test orders.
- **TSCA Risk Evaluations (ChemRisk).** Developed comments and recommendations regarding the EPA Risk Evaluations. Assisted with performing dermal exposure modeling to estimate occupational exposures of chlorinated solvents during various occupational scenarios. Specifically, reviewed U.S. EPA methodology for model occupational dermal exposures, and used IHSkinPerm to model the dermal dose for different occupational tasks and exposure durations.
- **Occupational Dermal Exposure Monitoring (ChemRisk).** Supported a working group in providing guidance for the design and conduction of method validation and occupational dermal wipe sampling campaigns, such as those requested by U.S. EPA under TSCA. Developed a decision framework for dermal monitoring and data collection strategies for use by risk assessors and occupational health and safety professionals.
- **Occupational Dermal Assessment for REACH Compliance (ChemRisk).** Developed a qualitative dermal exposure assessment approach to understand potential for occupational dermal exposure at a 3D printing manufacturing facility. Estimated dermal exposure potential in comparison to REACH DNELs.

Occupational Health & Safety

- **Coffee Processing/Roasting Facility Workers, Exposure Assessment (ChemRisk).** Conducted an exposure assessment of coffee processing facility workers during roasting, grinding, and packaging of products. Collected full-shift and task-based personal air samples for diacetyl, 2-3-pentanedione, and carbon monoxide.

- **Embalmer Occupational Exposure Assessment (ChemRisk).** Conducted an exposure assessment of embalmers during embalming processes. Collected air exchange measurements, and full-shift and task-based personal badge samples for formaldehyde.
- **COVID-19 Prevention Planning and Support at TV and Film Productions (ChemRisk).** Provided support and developed comprehensive COVID-19 prevention plans for various television and film productions.
- **Internal Permissible Exposure Limit (IPEL) Development (ChemRisk).** Assisted with updating an IPEL for four chemicals for an industrial client. Reviewed relevant toxicological literature and summarized the data for acute, subacute, and chronic oral, inhalation, and dermal exposures, developmental and reproductive toxicity, genetic toxicity, skin/eye irritation, and skin sensitization, and applied adjustment factors.

Toxicological Assessments

- **E-cigarette Toxicology Review for FDA Submission (ChemRisk).** Assisted with performing a meta-analysis of in-vitro and in-vivo studies to assess the toxicity of e-cigarette liquids and e-cigarette aerosols. Prepared toxicological profiles for e-liquid constituents in preparation of premarket tobacco application (PMTA) submissions to the FDA.
- **Comparison of Indoor and Outdoor Concentrations of Chemicals Resulting from Refinery Fire (ChemRisk).** Reviewed and evaluated literature on the comparison of indoor and outdoor concentrations particulate matter, VOCs, carbonyls, and hydrocarbons. Compared residential and in-vehicle concentrations to modeled data and regulatory guidance values.

Litigation Support

- **Asbestos Litigation Support and Case Management (ChemRisk).** Provided litigation support and case management in occupational exposure cases involving potential exposures resulting from alleged exposure to asbestos from working with gaskets, packing, friction products, refractory, vermiculite, and products associated with boilers. Regularly performed literature reviews related to occupational and non-occupational exposures to asbestos across a variety of workplace and product usage scenarios. Compiles and interprets literature and case materials in preparation of expert testimony and client reports.
- **Contaminants/Contaminated Site Litigation Support (ChemRisk).** Provided general litigation support to testifying experts for cases related to occupational exposure to various chemicals, including crystalline silica, diacetyl, p-toluene sulphonic acid, propan-2-ol, and sulfuric acid, as well as

regarding the potential human and environmental exposure to constituents in coal ash.

Consumer Products

- **Proposition 65 Support (ChemRisk).** Supported various clients regarding Proposition 65 concerns, including performing exposure assessments of regulated chemicals present in consumer products, and labeling requirements and recommendations.
- **Hand-to-Mouth Efficiency of Flame Retardants from Consumer Infant Products, Simulation Study (ChemRisk).** Designed and conducted a simulation study to characterize hand-to-mouth transfer efficiency of flame retardants from consumer infant products.
- **Evaluation of Safety of Children's Hand Sanitizers (ChemRisk).** Performed a survey of hand sanitizers, in which analytical testing was conducted to evaluate the presence of organic impurities and ethanol content. Performed a risk assessment to determine potential adverse effects associated with ingestion or dermal absorption of hand sanitizers in adult and child consumers.
- **Hg-Containing Skin Lightening Products Risk Assessment (ChemRisk).** Assisted with performing a risk assessment of inorganic mercury and renal toxicity associated with the application of Hg-containing skin lightening products.
- **Exposure Assessment of PFAS in Dental Night Guards and Whitening Trays (ChemRisk).** Conducted a study to evaluate the presence of PFAS in dental night guards and whitening trays. Performed a screening-level exposure assessment to evaluate how consumer usage contributes to oral exposure of PFAS, and any potential adverse health risks.

PROFESSIONAL TRAININGS

- Bowen EHS® Certified Industrial Hygienist (CIH) Course, Comprehensive online review course is designed to prepare professionals for the Certified Industrial Hygienist (CIH) certification exam. 32 CEUs, 2024
- AIHA Professional Development Course; PDC 705: Surface Sampling for the Hazards Investigator, Workshop discussing surface sampling approaches and hazard characterization. 14 CEUs, 2023
- Certification for the Safe Management of Productions, 2020.
- AIHA University Dermal Exposure Assessment Virtual Conference, A conference focusing on the key steps to performing a dermal exposure assessment, including qualitative, semi-quantitative, and quantitative approaches. 8 CEUs, 2020
- Adult First Aid/AED/CPR Certified, Long Beach, California, 2024
- South Coast Air Quality Management District (SCAQMD) Fugitive Dust Control Training, Rule 403

PROFESSIONAL AFFILIATIONS

Society of Toxicology (SOT), Member (2013-Present)

American Industrial Hygiene Association (AIHA), Member (2020-Present)

PUBLICATIONS

Massarsky A, Parker JA, Gloekler L, Donnell MT, Binczewski NR, Kozal JS, McKnight T, Patterson A, Kreider, ML. "Assessing potential human health and ecological implications of PFAS from leave-in dental products." *Toxicology and Industrial Health*, 2024.

Lynch, H.N., Gloekler, L.E., Allen, L.H., Maskrey, J.R., Bevan, C., & Maier, A. "Analysis of dermal exposure assessment in the US Environmental Protection Agency Toxic Substances Control Act Risk Evaluations of Chemical Manufacturing". *Toxicology and Industrial Health* 2022.

Gloekler, L.E., de Gandiaga, E.J., Binczewski, N.R., Steimel, K.G., Massarsky, A., Kozal, J., Vincent, M., Zisook, R., LaGuardia, M.J., Dotson, S., & Gaffney, S. "Evaluation of the safety and efficacy of hand sanitizer products marketed to children available during the COVID-19 pandemic". *International Journal of Environmental Research and Public Health*, 2022.

Gloekler, L., Barlow, C., Tvermoes, B., LaGuardia, M., & Sahmel, J. A pilot study to characterize hand-to-mouth transfer efficiency of organophosphate flame retardants identified in infant products. "A pilot study to characterize hand-to-mouth transfer efficiency of organophosphate flame retardants identified in infant products." *Human and Ecological Risk Assessment: An International Journal*, 2021.

Blog Posts

Gloekler, L., Hamaji, C. Flame Retardants and TSCA: What's New? *ChemRisk Blog Post*, 2021.

Gloekler, L. New Regulations Affecting Flame Retardants in Children's Toys, *ChemRisk Blog Post*, 2017.

Gloekler, L. Evaluation of air quality in nail salons continues. *ChemRisk Blog Post*, 2015.

Thesis

Gloekler, L., Masters Thesis: Examining Predictors of Exposure to Polybrominated Diphenyl Ethers (PBDEs) Among Chinese University Students. Duke University. 2013.

Conference Abstracts/Posters/Presentations

Gloekler, L., Hamaji, C., Lynch, H., Maier, A. A Framework for Optimizing Dermal Exposure Assessment Methods in Occupational Risk Assessment. Poster Presentation P262 at the Society of Toxicology (SOT) annual Meeting & ToxExpo (Nashville, TN), 2023.

Gloekler, L., N. Binczewski, E. De Gandiaga, K. Gibbs, J. Kozal, A. Massarsky, M. Vincent, R. Zisook, G.S. Dotson and S. Gaffney. Evaluation of the Safety and Efficacy of Children's Hand Sanitizers Available During the COVID-19 Pandemic. Poster

Presentation P664 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo (San Diego, California), 2022.

Gloekler, L., N. Binczewski, E. De Gandiaga, K. Gibbs, J. Kozal, A. Massarsky, M. Vincent, R. Zisook, G.S. Dotson and S. Gaffney. Evaluation of the Safety and Efficacy of Children's Hand Sanitizers Available During the COVID-19 Pandemic (Abstract 3973). *Toxicologist*, 2022, pp. 186(S1):287. Lastname, F.M. and Lastname, F.M., "Article Title," *Proceedings of Conference Name*, Nov. 17-18, 2008, PAPERID-000000, pp. 503-509, 2022.

Hamaji, C., C. Park, L. Gloekler, R. Zisook, G.S. Dotson, P. Scott, K. Unice and S. Gaffney. A Risk Assessment of Inorganic Mercury Renal Toxicity from Application of Skin Lightening Products from Multiple Countries: An Update. Poster Presentation P563 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo (San Diego, California), 2022.

Hamaji, C., C. Park, L. Gloekler, R. Zisook, G.S. Dotson, P. Scott, K. Unice and S. Gaffney. A Risk Assessment of Inorganic Mercury Renal Toxicity from Application of Skin Lightening Products from Multiple Countries: An Update (Abstract 3886). *Toxicologist*, 2022.

Kozal, J.S., M.J. Vincent, L.E. Gloekler, E.J. de Gandiaga, A. Massarsky, R.E. Zisook, N.R. Binczewski, K.E. Gibbs, S.H. Gaffney and G.S. Dotson. Risk Assessment of Organic Impurities Detected in Hand Sanitizers Marketed to Children During the COVID-19 Pandemic. Poster Presentation P530 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo (San Diego, California), 2022.

Kozal, J.S., M.J. Vincent, L.E. Gloekler, E.J. de Gandiaga, A. Massarsky, R.E. Zisook, N.R. Binczewski, K.E. Gibbs, S.H. Gaffney and G.S. Dotson. Risk Assessment of Organic Impurities Detected in Hand Sanitizers Marketed to Children During the COVID-19 Pandemic (Abstract 3341). *Toxicologist*, 2022.

Massarsky, A., J.A. Parker, L. Gloekler, M.T. Donnell, R. Binczewski, J.S. Kozal, T. McKnight, A. Patterson and M.L. Kreider. Assessing Potential Human Exposure to PFAs from Leave-In Dental Products. Poster Presentation P216 at the Society of Toxicology (SOT) Annual Meeting & ToxExpo (San Diego, California), 2022.

Massarsky, A., J.A. Parker, L. Gloekler, M.T. Donnell, R. Binczewski, J.S. Kozal, T. McKnight, A. Patterson and M.L. Kreider. Assessing Potential Human Exposure to PFAs from Leave-In Dental Products (Abstract 3112). *Toxicologist*, 2022, pp. 186(S1):100, 2022.

Gloekler, L., N. Binczewski, S. More, L. Liang, M. Hoang and A. Madl. Volatile Organic Compounds Measured in US Indoor Residential Air from Smoking and Nonsmoking Homes and Implications for Public Health. Poster Presentation at the 59th Society of Toxicology Annual Meeting. (Accepted) (Anaheim, California), 2020.

Gloekler, L., C.A. Barlow, B. Tvermoes, M.J. La Guardia, and J. Sahmel Characterization of Flame Retardants in Baby Products and the Evaluation of Dermal Loading and Hand-to-Mouth



Transfer Efficiency. Poster Presentation at the 57th Annual Meeting and Society of Toxicology (SOT) Meeting (Accepted) (San Antonio, Texas), 2018.

Gloekler, L.E., Shay, E.C., Schmidt, N., Haghighat, N., Panko, J.M. Cowan, D.M, Paustenbach, D.J. Flame-Retardants in Upholstered Furnishings: An Assessment of Health Risk and Fire-Related Deaths in the Era of California Technical Bulletin (TB-117). Poster Presentation at the 55th Society of Toxicology Annual Meeting (Accepted), New Orleans, LA. 2016.

PRESENTATIONS

Decision Framework for Performing Dermal Exposure Studies
American Chemistry Council (ACC) Webinar Session 2, Gloekler, L. and Cherrie, J. 2023.

A Case for Improved Health and Safety Support in the Entertainment Industry, Gloekler, L. and Tarpey, T. Education Session at the American Industrial Hygiene Association Conference (AIHce), Phoenix, Arizona.

Streamlining Dermal Risk Assessment Through a Risk Decision Framework, P. DeLeo, E Jensen, A Maier, S Maberti, L Gloekler, H Lynch, American Chemistry Council, Dow, ExxonMobil Chemical Company, Stantec ChemRisk, Presented at Society for Risk Analysis, Washington, D.C.