



Marisa L Kreider, PhD, DABT

Current Position

Principal Science
Advisor

Discipline Areas

- > Toxicology
- > Industrial hygiene
- > Exposure assessment
- > Risk assessment
- > Product Stewardship

Years' Experience

14 Years

Joined Cardno

2006

Education

- > PhD, Duke University, May 2005
- > BS, University of Pittsburgh, April 2001

Summary of Experience

Dr. Kreider is a Principal Science Advisor and board-certified toxicologist with Cardno ChemRisk. With over 15 years of consulting experience, she has had the opportunity to manage a variety of projects, including reviewing of toxicological literature for a variety of chemical types (including materials in tire manufacture, VOCs, automobile exhausts, perfluorinated chemicals, and particulate matter, etc.); designing, managing and interpreting toxicity studies; conducting or critiquing dose response assessments for chemicals or particulate; supporting corporate product stewardship initiatives; assisting with regulatory needs around a variety of chemicals management regulations (TSCA, REACH, Prop 65, etc.) and conducting quantitative or qualitative risk assessments on chemicals and/or consumer products. Dr. Kreider has an expertise in product stewardship, and has assisted a variety of clients in understanding human health and environmental impacts associated with products at various life cycle stages. Dr. Kreider received her Ph.D. from the Department of Pharmacology and Cancer Biology at Duke University, where her thesis evaluated the developmental neurotoxicity of pharmacotherapies used in the treatment of preterm labor.

Significant Projects

Managed a project to evaluate the human health and environmental impacts associated with the use of a recycled consumer product. The project included reviewing peer-reviewed and agency developed literature, understanding regulatory and media activities in different regions, and

Managed a project to support a trade association in anticipating and responding to U.S. EPA activities under TSCA existing chemicals regulation, including prioritization, risk evaluation scoping, response to test orders, and risk evaluation. This project included: reviewing toxicological and epidemiological data on chemicals manufactured by the member companies, modeling exposures to the chemical of interest, designing and overseeing the conduct of toxicological studies to fill data gaps identified by U.S. EPA, development of approaches and protocols for collection of worker exposure data, and supporting the association in information submissions and/or responses to comments to U.S. EPA.

Managed a project to understand the state of knowledge regarding human health and environmental implications related to the use of nanomaterials in the tire industry for a consortium of tire manufacturers. The project included reviewing the current literature on human health toxicity, ecological toxicity, regulatory issues, exposure assessment, exposure monitoring, and industrial hygiene (with a specific focus on best practices for risk management) as they relate to nanomaterials. An additional goal of the project was to identify the key stakeholders with potential to impact the regulation of nanomaterials.

Managed a project to understand worker exposure to nanostructured materials used in manufacturing of a consumer product. The project included reviewing exposure assessment strategies, developing a sampling plan, executing field sampling, interpreting data and making recommendations to the manufacturers on additional steps necessary to assess worker exposure.

Co-managed a project to review the historic epidemiological and toxicological studies on perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) in an effort to develop a state of the art timeline on the toxicology and epidemiology for PFOA and PFOS for comparison to hazard communication obligations and practices.

Managed a project to investigate reported worker health claims following fumigation of a building with chlorine dioxide. This project included on-site indoor air quality sampling, surface wipe sampling, review of toxicology associated with chlorine dioxide and associated breakdown products, interpretation of findings in the context of worker risk, and recommendations for risk management and risk communication with workers.

Managed a project to evaluate the potential for endocrine disruption on two chemicals used in the manufacture of a consumer product with wide dispersive use. This work included: designing a series of tests, using the basic framework recommended by U.S. EPA under the Endocrine Disruption Screening Program, to proactively determine the potential for these chemicals to interact with the endocrine system; communicating with the manufacturers to help understand the utility of the different tests and their regulatory reporting obligations; managing of the subcontracting laboratory performing the tests, and determining of the weight of evidence conclusions upon completion of all testing.

Managed a project to evaluate potential exposure to titanium dioxide from the use of cosmetic products. This project included development and execution of a sampling strategy, analysis of results, and communication with respect to potential health risks associated with the product usage.

Managed a project to assist a company in developing internal occupational exposure limits for chemicals used in their industry. This effort included: reviewing and summarizing toxicological and epidemiological literature on chemicals of interest and drafting a support document for use by the company industrial hygienists.

Managed a project to assist a company in understanding potential toxicological and environmental implications related to a new material under development. This effort included analyzing the chemical structure of the new material with computational toxicology and fate and transport models and reporting results to company for use in research and development decisions.

Managed a project to assist a company with U.S. EPA regulatory submissions for the manufacture of two new products generated from the pyrolysis of scrap tires. Both products required submission of documentation (either a Premanufacturing Notice or a Significant New Use Notification) under TSCA to obtain authorization of manufacture. We assisted with the technical assembly of information required for both the SNUN and PMN for these products and worked with EPA on gathering information necessary for a complete risk assessment of the process and the products.

Managed a project conducted on behalf of a governmental agency to review and summarize the adverse effects of diesel exhaust as related to the respiratory and immune systems. This work included a review of current literature, drafting of relevant chapters on these organ systems for use by the agency, and management of the project team.

Managed a project aimed at refining the dose response assessment of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) on behalf of a governmental agency. To conduct the dose response assessment, the toxicity literature was critically reviewed, a key study selected, and benchmark dose modeling conducted to determine suitability in

use for determining the critical effect level. A report summarizing the findings was presented to the government agency and used to advise them on establishing a critical effect level.

Managed a project conducted on behalf of Health Canada to review the available toxicological information for 11 chemicals on the Domestic Substances List (DSL). This project included searching of literature within government and scientific database resources, reviewing the literature, and providing a summary to the agency for their consideration.

Retained as an expert witness to render an opinion regarding the association of workplace exposures and the development of Non-Hodgkins lymphoma. Reviewed literature on exposures associated with a specific occupation and the known carcinogenic hazards associated with those exposures.

Provided senior oversight to support a trade association seeking to navigate the TSCA risk evaluation process, including review of occupational exposure assessment literature relevant to the industry, development and implementation of sampling to characterize modern inhalation exposures in the industry, recommendations to the trade association board, and communication with the membership regarding the risk evaluation process.

Provided senior oversight for the development of supporting materials for the submission of a premanufacturing notice (PMN) under U.S. EPA TSCA; materials included reviews of supporting toxicological literature and toxicity of relevant read-across substances, overseeing physical-chemical property testing, and the development of a tool for organizing data for submission with the PMN.

Provided senior oversight for technical support of FDA Premarket Tobacco Applications (PMTAs) for multiple manufacturers of alternative tobacco products. These projects involved conducting risk assessments on chemicals and biological agents for which there is potential exposure, oversight of toxicity and analytical testing, review of published literature, and support in preparation of the application and response to deficiency letters.

Provided senior oversight in evaluation and selection of transfer factors for perfluorooctanoic acid (PFOA), perfluorooctane sulfonate (PFOS), and perfluorohexane sulfonate (PFHxS) between environmental media (including soil and water) and species of fish and cattle used for subsistence fishing and farming in the local population for use in site-specific risk assessment.

Provided senior oversight in the design and implementation of a study to evaluate particulate generation during the normal use of a consumer product for research and development purposes. In this study, particulate generation was compared between two products (current product and product under development) to inform potential health impacts, if any, of product changes.

Provided senior oversight on repeated computational toxicology analyses on new chemicals under development to inform hazard communication throughout the supply chain. Computational analyses included evaluation through multiple computational toxicology tools (e.g. OECD Toolbox, Derek, Sarah, etc.), read-across analysis, and integration of other parameters for consideration (e.g. physiochemical properties).

Serves as a member of the product stewardship steering committee for a Fortune 500 chemical company. As part of this engagement, provide on-demand risk assessment and

toxicology support, as well as general product stewardship guidance during regular meetings with the steering committee.

Retained as an expert witness to render an opinion regarding the association of workplace exposures and the development of kidney cancer. Reviewed literature on exposures associated with a specific occupation and the known carcinogenic hazards associated with those exposures.

Retained as an expert witness in product liability litigation to evaluate the relationship between exposure to an article of clothing and effects on the skin.

Retained as an expert witness to render an opinion regarding the association between odors associated with land application of biosolids and health effects occurring in a residential population adjacent to the farmland where the biosolids were applied. Reviewed literature on odors and odor perception, health effects related to chemicals found in biosolids, and other key factors relating to the determination of causation. Rendered an opinion via expert report on the likelihood that the health effects were causatively related to the application of the biosolids.

Managed a project to evaluate the use of cobalt salts in the manufacture of a specific consumer product; this work included reviewing and summarizing literature regarding the toxicity and availability of alternatives for cobalt salts; summarizing the mode of action for carcinogenicity of cobalt and cobalt compounds; developing an exposure assessment for cobalt salts during manufacturing of the product; overseeing of a socioeconomic analysis on the impact of regulatory action on cobalt salts; and developing sampling protocols to measure human and environmental exposure from cobalt salts. The primary motivation for this work was the probable designation of cobalt salts as carcinogens and the implications for potential restriction under regulatory constructs.

Provided peer review services for recommendations provided to the Australian Department of Defense on derivation of screening criteria values for perfluorooctanoic acid (PFOA), perfluorooctane sulfonate (PFOS), and related fluorinated compounds.

Reviewed and summarized literature establishing the scientific basis for the development of occupational regulations and the calculation of toxicity factors for trichloroethylene (TCE) in support of a property development group. Performed human health risk assessment for historical exposure from vapor intrusion of soil vapor containing TCE into indoor airspace.

Involved in an analysis of sustainability of compounds used in tire industry for large tire consortium. Aided in preparation of a state-of-knowledge report, including summarizing mammalian and aquatic toxicity data and identification of any gaps in toxicity data for chemicals involved in tire manufacturing and particulate released from the tire during use, identifying regulatory agendas that may limit the use of these chemicals, and prioritizing these chemicals with respect to toxicity and future regulation. Participated in development of a research agenda to address significant gaps in knowledge, and selected and coordinated with laboratories in order to implement this research agenda and interpret results. Research included evaluation of both environmental and human health endpoints. Aided in exposure assessment of key chemicals used in tire manufacturing.

Involved in a historical benzene dose reconstruction for refinery employees at four domestic refineries in support of a large oil company. Participation in this project included

quality control of industrial hygiene databases, historical document review and summarization, data analysis, development of standardized area, job and task descriptions across refineries, reporting of findings, and other supporting tasks.

Assessed the potential for human health or environmental risk associated with the use of ground rubber in playgrounds and athletic fields. Work on behalf of this project included extensive review and summary of previously published literature or risk assessments and screening level risk assessments for those endpoints not previously addressed.

Provided toxicology support for a project assessing release of formaldehyde from wood products and compliance with Proposition 65 and Airborne Toxic Control Measure (California regulations). Focused on dose response assessments of formaldehyde and determination of carcinogenic risk criteria (slope factors) for different regulatory agencies.

Assessed key health effects associated with evaporative and combustive emissions from the use of fuels. This included review of toxicity literature related to both whole emissions and components of emissions (e.g., certain metals or VOCs). Proposed a testing strategy for assessing the safety of new fuels or fuel additives to correspond with key health effects found to be associated with either whole emissions or components of emissions for Health Canada.

Managed a project supporting a petroleum company in efforts to understand dioxin emissions from their facility and the impact on the local neighborhood. This included reviewing TRI data, critiquing local NGO reports on the community impact, and other support tasks.

Provided peer review for the reassessment of risks related to aniline exposure in the general public on behalf of Health Canada.

Provided toxicological expertise to state agency in review of industry white paper aimed at establishing an alternative standard for cleanup of all isomers of hexachlorocyclohexane (HCH), including lindane. This involved an independent review of the literature on which the industry relied in formulating their opinion, critique of the white paper, and recommendations to the state agency.

Provided technical support to a trade association in developing generic exposure scenarios for REACH for an article with intended release. This included reviewing the potential chemical releases from manufacture of the article, releases during use of the article, and releases during the waste and recycling stages of the article.

Summarized toxicity and exposure literature for four pesticides in order to assess the potential for future regulation and the impact on continued reregistration for commercial use.

Summarized toxicity and exposure literature for amorphous microsilica and reviewed and summarized case materials in litigation support for a manufacturer of microsilica.

Researched toxicity and regulatory agendas related to toxaphene, formaldehyde, benzene, phenol, bisphenol A, epichlorohydrin, and toluene di-isocyanate in support of due diligence effort of a chemical manufacturer.

Summarized toxicity and potential origins of exposure for strains of bacteria alleged to be spreading via indoor air in an office building.

Researched site assessments associated with railways for lead and other metal contamination of soil.

Reviewed and summarized case materials, including deposition, medical records, and expert reports for numerous asbestos and benzene toxic tort litigation cases.

Memberships to Professional Societies

- > Society of Toxicology (SOT)
 - > Student member, 2002 - 2006
 - > Full member, 2011 – current
 - > Neurotoxicology Specialty Section, 2002 - 2006
 - > Risk Assessment Specialty Section, 2011 – current
 - > Nanotoxicology Specialty Section, 2011 – 2020
 - > Occupational and Public Health Specialty Section, 2020-current
 - > Women In Toxicology Special Interest Group, 2020-current
 - > Allegheny-Erie Society of Toxicology, 2011 – current; President-Elect 2018-2019; President 2019 – 2020; Past-President 2020 – 2021
- > American Industrial Hygiene Association (AIHA)
 - > Member, 2014 – 2019
- > Society for Environmental Toxicology and Chemistry (SETAC)
 - > Member, 2014

Professional Honors and Awards

- > Awarded 2014 Best Published Paper Regarding Medical Devices for Toxicology-based cancer causation analysis of CoCr-containing hip implants: a quantitative assessment of genotoxicity and tumorigenicity studies (J Appl Tox. 34(9):939-967). Medical Device and Combination Product Specialty Section – Society of Toxicology Annual Meeting, San Diego, CA, March 2015.

Certifications

- > Diplomate of the American Board of Toxicology (2013-current)

Publications

Peer-Reviewed Publications

- > Gillie, C., Killius, A., Parker, G., Kreider, M., and Sullivan, H. 2021. Leveraging science to inform proactive and reactive risk management. Environmental Law Reporter: 51 ELR 10198
- > Kovoichich, M., M. Liang, J.A. Parker, S.C. Oh, J.P. Lee, L. Xi, M.L. Kreider, and K.M. Unice. 2021. Chemical mapping of tire and road wear particles for single particle analysis. Sci Total Env. 757:144085.
- > Kreider, M.L., Unice, K.M., and Panko, J.M. 2019. Human health risk assessment of Tire and Road Wear Particles (TRWP) in air. Human Ecol Risk Ass. 26(10): 2567-2585.

- > Marsh, G.M., A. Bernal, N.S. Egnot, and M. Kreider. 2018. Letter to the Editor: Comments on the measurement of lung cancer tumor markers in workers of a glass wool company. *Int J Occup Env Med.* 9(3):157-158.
- > Burns, A., J. Shin, K.M. Unice, S.H. Gaffney, M.L. Kreider, R.H. Gelatt, and J.M. Panko. 2017. Combined analysis of job and task benzene air exposures among workers at four US refinery operations. *Tox Ind Health.* 33(3):193-210.
- > Kreider M.L., W.D. Cyrs, M.A. Tosiano, and J.M. Panko. 2015. Evaluation of quantitative exposure assessment method for nanomaterials in mixed dust environments: Application in tire manufacturing facilities. *Ann Occup Hyg.* 59(9):1122-1134
- > Christian, W.V., L.D. Oliver, D.J. Paustenbach, M.L. Kreider, and B.L. Finley. 2014. Toxicology-based cancer causation analysis of CoCr-containing hip implants: A quantitative assessment of genotoxicity and tumorigenicity studies. *J Appl Tox.* 34(9):939-967.
- > Unice, K.M., M.L. Kreider, and J.M Panko. 2013. Comparison of tire and road wear particle concentrations in sediment for watersheds in France, Japan, and the United States by quantitative pyrolysis GC/MC analysis. *Env Sci Tech.* 47(15):8138-8147.
- > Kreider, M.L., A.M Burns, G.H. DeRose, and J.M. Panko. 2013. Protecting workers from risks associated with nanomaterials: Part II – Best practices in risk management. *Occup Safety Health.* 82(9):20-24. Available at: <http://ohsonline.com/articles/2013/09/01/protecting-workers-from-risks-associated-with-nanomaterials.aspx>
- > Panko, J.M, J. Chu, M.L. Kreider, and K.M. Unice. 2013. Measurement of airborne concentrations of tire and road wear particles in urban and rural areas of France, Japan, and the United States. *Atmosph Environ.*72:192-199.
- > Unice, K.M., M.L. Kreider, and J.M. Panko. 2012. Use of a deuterated internal standard with pyrolysis-GC/MS dimeric marker analysis to quantify tire tread particles in the environment. *Int J Env Res Pub Health.* 9:4033-4055.
- > Kreider, M.L., M. Doyle-Eisele, R.G. Russell, J.D. McDonald, and J.M. Panko. 2012. Evaluation of potential for toxicity from subacute inhalation of tire and road wear particles in rats. *Inhal Toxicol.* 24(12):907-917.
- > Panko, J.M., M.L. Kreider, B.L. McAtee, and C. Marwood. 2012. Chronic toxicity of tire and road wear particles to water- and sediment-dwelling organisms. *Ecotoxicol.* Advance online publication, September 21, 2012. doi: 10.1007/s10646-012-0998-9.
- > Kreider, M.L. and J.M. Panko. 2012. Letter to editor re: Ling et al. 2011 (*Environ Sci Pollut Res Int* 18(6):877-889). *Environ Sci Pollut Res Int.* Advance online publication, Jan. 12, 2012. doi: 10.1007/s11356-011-0708-9
- > Marwood C., B.L. McAtee, M.L. Kreider, R.S. Ogle, B.L. Finley, L.I. Sweet, and J.M. Panko. 2011. Acute aquatic toxicity of tire and road wear particles to alga, daphnid, and fish. *Ecotoxicol.* 20(8):2079-89.
- > Gaffney, S.H., J.M. Panko, K.M. Unice, A.M. Burns, M.L. Kreider R.H. Gelatt, L.E. Booher, and D.J. Paustenbach. 2011. Occupational Exposure to Benzene at the ExxonMobil Refinery in Baytown, TX (1978-2006). *J Expo Sci Environ Epidemiol,* 21(2):169-85.
- > Widner T.E., S.H. Gaffney, J.M. Panko, K.M. Unice, A.M. Burns, M.L Kreider, J.R. Marshall, L.E. Booher, R.H. Gelatt, and D.J. Paustenbach. 2011. Airborne concentrations of benzene for dock workers at the ExxonMobil refinery and chemical

- plant, Baton Rouge, Louisiana, USA (1977-2005). *Scand J Work Env Health*. 37(2):147-58.
- > Gaffney, S.H., A.M. Burns, M.L. Kreider, K.M. Unice, T.E. Widner, D.J. Paustenbach, L.E. Booher, R.H. Gelatt, and J.M. Panko. 2010. Occupational exposure at the ExxonMobil refinery in Beaumont, TX (1976-2007). *Int J Hyg Env Health*. 213(4):285-301
 - > Kreider, M.L., K.M. Unice, J. Panko, A. Burns, D.J. Paustenbach, L.E. Booher, R.H. Gelatt, and S. Gaffney. 2010. Benzene exposure in refinery workers: ExxonMobil Joliet, Illinois, USA (1977-2006). *Tox Ind Health*. 26(10):671-90.
 - > Kreider, M.L. and E.S. Williams. 2010. Interpreting REACH guidance in the determination of the derived no effect level (DNEL). *Reg Tox Pharm*. 58(2):323-9.
 - > Kreider, M.L., Panko, J.M., McAtee, B.L., Sweet, L.I., Finley, B.L. 2010. Physical and chemical characterization of tire-related particles: Comparison of particles generated using different methodologies. *Sci Total Env*. 408(3): 652-659.
 - > Gaffney, S.H., K.M. Unice, M.E. Le, And M.L. Kreider. 2010. Formaldehyde emissions from wood products and cancer risk: Compliance with California's Proposition 65 and Airborne Toxic Control Measure. Submitted to *Inhalation Toxicology*.
 - > Gaffney, S.H., J.M. Panko, A.M. Burns, K.M. Unice, M.L. Kreider, L.E. Booher, R.H. Gelatt, J.R. Marshall, and D.J. Paustenbach. 2009. Occupational Exposure to Benzene at the ExxonMobil Refinery at Baton Rouge, LA (1977-2005). *Journal of Occupational and Environmental Health*. (9): 517-529.
 - > Slotkin, T.A., M.L. Kreider, , C.A Tate, and F.J. Seidler. 2006. Critical Prenatal and Postnatal Periods for Persistent Effects of Dexamethasone on Serotonergic and Dopaminergic Systems. *Neuropsychopharmacology*, 31(5):904-11.
 - > Kreider, M.L., C.A. Tate, M.M. Cousins, C.A. Oliver, F.J. Seidler, and T.A. Slotkin. 2005. Lasting Effects of Developmental Dexamethasone Treatment on Neural Cell Number and Size, Synaptic Activity, and Cell Signaling: Critical Periods of Vulnerability, Dose-Effect Relationship, Regional Targets, and Sex Selectivity. *Neuropsychopharmacology*, 31(1): 12-35.
 - > Kreider, M.L. J.E. Aldridge, M.M. Cousins, C.A. Oliver, F.J. Seidler, and T.A. Slotkin. 2005. Disruption of Rat Forebrain Development by Glucocorticoids: Critical Perinatal Periods for Effects on Neural Cell Acquisition and on Cell Signaling Cascades Mediating Noradrenergic and Cholinergic Neurotransmitter/Neurotropic Responses. *Neuropsychopharmacology*, 30(10): 1841-55.
 - > Kreider, M.L., E.D. Levin, F.J. Seidler, and T.A. Slotkin. 2005. Gestational Dexamethasone Treatment Elicits Sex-Dependent Alterations in Locomotor Activity, Reward-Based Memory and Hippocampal Cholinergic Function in Adolescent and Adult Rats. *Neuropsychopharmacology*, 30(9):1617-23.
 - > Kreider, M.L., F.J. Seidler, M.M. Cousins, C.A. Tate, and T.A. Slotkin. 2004. Transiently Overexpressed α 2-Adrenoceptors and Their Control of DNA Synthesis in the Developing Brain. *Developmental Brain Research*. 152: 233-9.
 - > Kreider, M.L., F.J. Seidler, and T.A. Slotkin. 2004. α -adrenoceptor Modulation of Transiently Overexpressed α 2-adrenoceptors in Brain and Peripheral Tissues: Cellular Mechanisms Underlying the Developmental Toxicity of Terbutaline. *Brain Research Bulletin*. 62: 305-14.

- > Aldridge J.E., J.A. Gibbons, M.M. Flaherty, M.L. Kreider, J.A. Romano, and E.D. Levin.* 2003. Heterogeneity of toxicant response: sources of human variability. *Toxicological Sciences*: 76(1): 3-20.

- > *All authors contributed equally to this work

Magazine Articles

- > Kreider, M.L., A.M. Burns, G.H. DeRose, and J. M. Panko. 2013. Protecting workers from risks associated with nanomaterials: Part I – Exposure assessment. *Occup Health Safety*. 82(7):90-94.
- > Panko, J.M., M.L. Kreider, and K.M. Unice. 2013. Industry analyzes global impact of tires. *Rubber Plast News*. June 3, 2013: 15-18.

Presentations

- > Kozal, J.S., Lynch, H.N., Massarsky, A., Dinh, D., Kubitz, J.A., Atalay, Y., Scott, P.K., Kreider, M.L. 2021. Principal Components Analysis of Variables Affecting Per and Polyfluoroalkyl Substances (PFAS_ Bioconcentration or Bioaccumulation Factors (BCFs/BAFs) in Fish. To be presented at the Society for Toxicology and Environmental Chemistry meeting, November 14-18, 2021.
- > Lynch, H.N., Kozal, J.S., Massarsky, A., Dinh, D., and Kreider, M.L. Framework for assessment of uptake of PFAS in fish at contaminated sites with a case example from Australia. To be presented at the Society for Toxicology and Environmental Chemistry meeting, November 14-18, 2021.
- > Kreider, M.L., Choiniere, C.J., and Matthews, K.A (co-presenters). Heavy Metals, Glyphosate, and Other Environmental Contaminants: Assessing Risk and Informing Consumers. Presented at Food Advertising, Labeling and Litigation Conference. September 29, 2021.
- > O'Neill, H.C., Vincent, M.J., Han, A.A., Brown, S.E., Hazell, A.M., Kreider, M.L., and Madl, A.K. Hazard and risk banding framework for prioritization and bridging of e-liquids for toxicity testing. 2021. Poster presentation at Society of Toxicology Annual Meeting, March 12-26, 2021 (virtual).
- > Kreider, M.L. Optimizing the Evidence Integration Approach for Hazard Assessment for Chemicals with No Testing Data. 2020. Presented at the Society for Chemical Hazard Communication Fall Meeting. November 10, 2020.
- > Beckett, E.M., Brown, S.E., Cheatham, D.R., Reamer, H.A., and Kreider, M.L. 2020. Weight-of-evidence analysis to assess the potential of PFOA to act as an endocrine disruptor via eight distinct modes of action. Accepted to the Society of Toxicology Annual Meeting, March 15-19, 2020 (meeting cancelled).
- > Kreider, M.L., Miller, J.V., and Parker, J.A. 2020. Efficiency of removal of five per- and polyfluorinated alkyl substances from drinking water with household granular activated carbon filters. Accepted to the Society of Toxicology Annual Meeting, March 15-19, 2020 (meeting cancelled).
- > Kreider, M.L. and Cyrs, W.D. 2019. Exposure and risk assessment strategies for managing nanomaterials. Presented at Semiconductor Environmental Safety and

Health Association International High Technology ESH Symposium and Exposition. Scottsdale, AZ. April 30, 2019.

- > Kreider, M.L. 2019. Comparison of PFAS: Implications for hazard, exposure and risk assessment. Presented at Semiconductor Environmental Safety and Health Association International High Technology ESH Symposium and Exposition. Scottsdale, AZ. April 30, 2019.
- > Beckett, E.M., S.E. Brown, D.R. Cheatham, H.A. Reamer, M.L. Kreider. 2019. Weight of Evidence Analysis to Assess the Potential of PFOA to Act as a Steroidogenesis Inducer and Inhibitor. Abstract #3478. Poster Presentation at Society of Toxicology Annual Meeting. March 10-14, 2019. Baltimore, Maryland.
- > Kougias, D.G., M. Kovochich, J.V. Miller, M.M. Abramson, M.A. Maddaloni, M.L. Kreider. 2019. Evaluation of International Screening Values for Perfluorooctane Sulfonate (PFOS). Abstract #1189. Poster Presentation at Society of Toxicology Annual Meeting. March 10-14, 2019. Baltimore, Maryland.
- > Miller, J.V., M.M. Abramson, D.G. Kougias, M.A. Maddaloni and M.L. Kreider. 2019. Comparative analysis of international and domestic points of departure and uncertainty factors contributing to disparate oral reference doses for PFOA. Abstract #1175. Poster Presentation at Society of Toxicology Annual Meeting. March 10-14, 2019. Baltimore, Maryland.
- > Kreider, M.L., E.S. Hynds, and J.M. Panko. 2019. Evaluation of Tire and Road Wear Particles (TRWP) in Air in Delhi, India. Poster Presentation at Society of Toxicology Annual Meeting. March 10-14, 2019. Baltimore, Maryland.
- > Badger, D.E., C.E. Gillie, and M.L. Kreider. A Human Health Risk Assessment of Heavy Metal Ingestion from Children's Foods. Poster Presentation at Society of Toxicology Annual Meeting. March 10-14, 2019. Baltimore, Maryland.
- > Kreider, M.L. Risk Assessment under TSCA: How EPA Evaluates New Chemicals. Presented at the Semiconductor Environmental Safety and Health Association (SESHA) International High Technology ESH Symposium and Exposition. Scottsdale, AZ; April 16-20, 2018.
- > Beckett, E.M., D. C. Cheatham H. A. Reamer, S. E. Brown, and M. L. Kreider. 2018. Weight-of-Evidence Analysis to Assess the Potential of PFOA to Act as an Estrogen Receptor Agonist. Abstract # 3534. Poster Presentation at Society of Toxicology Annual Meeting. March 11-15, 2018. San Antonio, Texas.
- > Kreider, M.L. 2018. Implications of the Frank R. Lautenberg Chemical Safety Act for the Industrial Hygiene Community. Presented at the Yuma Pacific Southwest American Industrial Hygiene Association meeting. San Diego, CA; January 19, 2018.
- > Kreider, M.L. and J.M. Panko. 2016. Weight of evidence evaluation of potential endocrine disruption by 1,3-diphenylguanidine based on results of tier 1 endocrine disruption screening program assays. Abstract #1864. Poster Presentation at Society of Toxicology Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.
- > Panko, J.M., S.M. Benson and M.L. Kreider. 2016. Meta-analysis of lung cancer risk related to diesel exposure by occupation and evaluation of exposure response.

Abstract #2976. Poster Presentation at Society of Toxicology Annual Meeting. March 13-17, 2016. New Orleans, Louisiana.

- > Unice, K.M., J.L. Bare, M.L. Kreider, and J.M. Panko. 2015. Evaluation of Leachate from Tire and Road Wear Particles (TRWP) Upflow Percolation Column Tests. Poster presentation at Society of Environmental Toxicology and Chemistry, 36th Annual Meeting, Salt Lake City, UT, November 1-5, 2015.
- > Christian, WV, LD Oliver, DJ Paustenbach, ML Kreider and BL Finley. 2015. Toxicology Based Cancer Causation Analysis of CoCr-Containing Hip Implants: A Quantitative Assessment of Genotoxicity and Tumorigenicity Studies. Poster presentation at the 54th Annual Meeting and Society of Toxicology (SOT) Meeting at the San Diego Convention Center, San Diego, CA; March 22-26, 2015.
- > Kreider, ML. 2014. The Development and Application of a Methodology to Quantify Exposure to Nanoscale Amorphous Silica and Carbon Black During Tire Manufacturing. Presentation at the International Tire Exhibition and Conference September 9-11, 2014, Akron, OH.
- > Cyrs WD, MA Tosiano, JM Panko and ML Kreider. 2014. Use of a novel method to assess exposure to nanoscale carbon black and amorphous silica at two tire manufacturing facilities. Podium Presentation at The American Industrial Hygiene Conference & Exposition (AIHce) May 31 – June 5, 2014, San Antonio, TX, at the Henry B. Gonzalez Convention Center (HBGCC).
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