

Dana M Hollins, MPH, CIH

Current Position

Senior Principal Health Scientist

Discipline Areas

- > Environmental and occupational epidemiology
- > Exposure assessment
- > Industrial hygiene
- > Human health risk assessment

Years' Experience

14

Joined Cardno

2005

Education

- > MPH, Occupational and Environmental Epidemiology, University of Michigan, 2005
- > BA, Organizational Management, University of Michigan, 2002

Summary of Experience

Ms. Dana Hollins is an epidemiologist and board certified industrial hygienist with 15 years of professional experience in industrial hygiene, environmental and occupational epidemiology, exposure assessment, and human health risk assessment. A significant portion of her practice is dedicated to researching, measuring exposure, reconstructing dose and exposure and assessing risks to consumers, communities and workers exposed to a variety of chemicals including asbestos, diacetyl, beryllium, benzene, and phthalates. She has completed quantitative exposure assessments and risk assessments for consumer products, and medical devices, and in occupational and environmental settings. She specifically has expertise in evaluating occupational exposures to airborne chemicals in the workplace using current or historical industrial hygiene and exposure simulation data. Ms. Hollins' experience also includes investigating exposures and health effects resulting from non-occupational exposure to indoor air pollutants and she has completed her master's thesis in the field of environmental and occupational epidemiology, and statistics. Ms. Hollins is the 2020 recipient of the AIHA Kusnetz award. She currently serves on the Editorial Board for the *Toxicology and Industrial Health* journal and served on the AIHA *COVID-19 Re-Open America Guidelines Task Force*.

Significant Projects

Industrial Hygiene/Quantitative Exposure Reconstruction

Conducted an a comprehensive and critical review of methods for decontaminating filtering facepiece respirators with a focus on efficacy of disinfection, preserved performance, residual toxicity to the user, and feasibility (i.e., short duration treatment cycle, cost, and accessible materials). This analysis was published in 2020 (Jacobs et al. 2020).

Prepared or assisted in preparing a number of re-opening guidelines associated with the AIHA *COVID-19 Re-Open America Guidelines Task Force*.

Assisted in developing a Site Health and Safety Plan (HSP) for a contractor performing soil excavation work during redevelopment/construction activities in San Francisco, CA.

Designed, conducted and participated in numerous simulation studies to characterize exposures to asbestos and other chemicals from various consumer and commercial products.

Directed, managed and performed a baseline exposure assessment at an automotive manufacturing facility. Performed a qualitative assessment of chemical stressors for certain departments throughout the facility, and a qualitative ranking of risk by job task. The qualitative assessment included review of processes and included interviews with representatives from each department and job title to assess exposure duration and frequency of routine operations and specific work tasks.

Assisted in designing and conducting numerous simulation studies to characterize exposures to metals, VOCs, and inorganic acids from lithium-ion battery thermal runaway events for purposes of performing a screening level human health risk assessment.

Assisted in designing and conducting a simulation study to characterize exposures to diacetyl, 2,3-pentanedione, methanol and acetaldehyde from roasted coffee beans.

Designed and conducted a simulation study to characterize potential exposures to airborne diacetyl associated with mixing dough containing diacetyl-containing flavoring and cleaning the mixing equipment.

Contributed to the design and completion of two exposure studies to assess worker and bystander exposures during installation and removal of gaskets and packing. The manuscripts summarizing these analyses were published in 2014 and 2015 (Madl et al. 2014; Madl et al. 2015).

Designed the study protocol and conducted an assessment of the historical exposure of workers who use mineral spirits assumed to contain "trace concentrations of benzene" (between 0.001 and 1%). In 2007, conducted a simulation study that characterized the near-field and far-field airborne concentration of benzene exposure to workers who use reasonable quantities of mineral spirits. Two manuscripts were published; one addressing modeling, and the other addressing the raw data.

Designed and conducted an assessment of historical industrial hygiene data pertaining to background asbestos levels onboard maritime shipping vessels to better understand crew exposures during which activities involving asbestos-containing materials, such as installation or removal of insulation, were not conducted. The manuscript summarizing this analysis was published in 2008 (Murbach et al. 2008).

Designed and conducted assessment of historical industrial hygiene data with regards to asbestos exposures to bricklayers in steel mills to better understand asbestos exposures during the lining and relining of open hearth furnaces and stoves.

Contributed to the design and completion of an exposure study to assess the airborne concentrations of asbestos associated with handling boxes of asbestos-containing clutch plates. The manuscript summarizing this analysis was published in 2008 (Jiang et al. 2008).

Contributed to the design and completion of an exposure study to assess the airborne concentrations of asbestos associated with handling boxes of asbestos-containing brake pads and shoes. The manuscript summarizing this analysis was published in 2008.

Conducted an exposure study characterizing personal and bystander exposures to asbestos during the removal of vintage automotive exhaust systems (circa 1946-1970), containing asbestos gaskets. The manuscript summarizing this analysis was published in 2006.

Epidemiology

Performed a review and evaluation of the published epidemiology and regulatory literature pertaining to health risks and complications associated with elective female sterilization (hysteroscopic and laparoscopic) procedures.

Performed a detailed review and evaluation of the published epidemiological literature pertaining to health risks associated with exposure to glyphosate containing products.

Evaluated human resource data for a population of office workers who were concerned about elevated risks of breast cancer due to their working environment. Conducted literature review of known risk factors for breast cancer and conducted a statistical analysis to compare the breast cancer rates in the building to what has been reported locally, at the state level, and across the United States. Historical environmental sampling reports for the building were also evaluated.

Managed and directed a large epidemiology study of employees at a large food flavorings manufacturing facility to evaluate the potential association between pulmonary restriction and occupational exposures to food flavoring chemicals. Tasks included analyzing work history and pulmonary function tests for production and non-production employees. Associations between abnormal pulmonary function and potential for occupational exposure to food flavorings were examined, while accounting for the impact of personal factors (e.g., smoking, obesity, changes in weight) on respiratory health measures. Analysis was based on a generalized estimating equation (GEE) models.

Conducted and published a review of the epidemiology literature of beryllium and lung cancer, presenting a state-of-the-art analysis of the epidemiological and toxicological literature with respect to beryllium carcinogenicity.

Evaluated and analyzed health survey data pertaining to childhood asthma and indoor air pollution in a cohort of elementary school children in Durban, South Africa. Conducted statistical analyses on parental and child baseline and follow-up interview data and examined the relationship between potential indoor allergens and the exacerbation of pre-existing childhood asthma.

Participated in assessing the effectiveness of a screening referral, follow-up and education program designed for impoverished families with children with asthma, living in a low-income area in Detroit. Evaluated an intervention model for childhood asthma control that was proposed to be implemented in the city of Detroit through the Michigan Department of Community Health, school districts, and other existing institutions dedicated to addressing childhood asthma incidence. Conducted telephonic baseline and follow-up parental and child interviews, participated in the training of other interviewers and entered data into a Microsoft Access database.

Human Health Risk Assessment

Reviewed toxicology and epidemiology literature, and regulatory guidance for two food flavorings, diacetyl and 2,3-pentanedione. Prepared and presented comments at the public meeting held in August 2011 regarding the NIOSH draft document: Criteria for a Recommended Standard Occupational Exposure to Diacetyl and 2,3-Pentanedione.

Evaluated the potential human health risk related to the presence of polypropylene in food. Assessed the toxicological health hazards associated with accidental ingestion of polypropylene in food products.

Conducted an evaluation of toxicology and epidemiology literature, and regulatory guidance for various food flavorings including, isobutyric acid, propionic acid and butyl acetate following alleged exposure at a flavoring manufacturing facility. Assisted in the

preparation of a report summarizing the published scientific literature related to these chemicals.

Reviewed toxicology and epidemiology literature, and regulatory guidance for various food flavorings including, diacetyl, metabisulfite, acetaldehyde, and ethyl acetate following alleged exposure at a flavoring manufacturing facility. Assisted in the preparation of a report summarizing the published scientific literature related to these chemicals.

Conducted a third-party review of a retrospective human health risk assessment that had been performed for chemicals in air during the excavation activities at a former MGP facility. Chemicals of potential interest included benzene, toluene, ethylbenzene and toluene (BTEX) and polyaromatic hydrocarbons (PAHs). The review involved an evaluation of the calculations, potential receptors, potential exposure pathways and conclusions. Following this review, an updated risk assessment was conducted and incorporated modifications/improvements that were recommended to the client in the review.

Consumer Products

Performed a quantitative risk assessment to determine the risk of skin sensitization induction following application of permanent hair dye products. An analysis of the concentration of PPD in a market survey of self-application permanent hair dye products was performed and PPD concentrations were compared by hair dye product shade. This analysis was published in 2020 (Towle et al. 2020).

Evaluated hazards posed to consumers from exposure to phthalates in a polyvinyl coated wire shelving product in relation to California's Proposition 65. An assessment of exposure potential and possible health effects was conducted to evaluate potential release of phthalates from the product.

Evaluated the MSDSs associated with chemicals in the consumer eyeglass product, summarized the literature regarding human and environmental exposure to silicone oil (a main component), and prepared a report summarizing the possible toxicity, exposure potential and possible health effects to end users of the product and environmental impacts from exposure to the eyeglass components.

Conducted evaluation of the hazards posed by DEHP in headphone cables. Due to a challenge under Proposition 65, a health risk assessment for a telecommunications firm was conducted to assess whether enough DEHP might be released from the handling of the cable exceeded the Proposition 65, "safe harbor" level.

Experience with Institutional Review Boards (IRBs)

Created and coordinated over 10 IRB proposals regarding research studies assessing occupational exposure to food flavorings, asbestos exposure during the handling of friction products, gaskets and packing, and benzene exposure during the handling petroleum-based distillate products. Prepared the study protocols, addressing issues related to study design and participants, safety precautions, record keeping, ethical issues, and communicated with IRB regarding study approval.

Certifications

- > Certified Industrial Hygienist (CIH), Comprehensive Practice (CP# 10261), American Board of Industrial Hygiene (ABIH), 2012 (re-certified 2017)

Professional Honors/Awards

- > American Industrial Hygiene Association President's Award, 2021
- > American Industrial Hygiene Association Social Responsibility Award, 2021
- > American Industrial Hygiene Association Kusnetz Award, 2020
- > American Industrial Hygiene Association Future Leaders Institute, 2012

Membership and Service to Professional Societies

- > American Industrial Hygiene Association (AIHA), 2007 – Current
 - Advisor to OSHA regarding Emergency Temporary and Permanent Standard, COVID-19 Rulemaking - 2021
 - Advisor to President-Elect Joe Biden and Vice-President Elect Kamala Harris' COVID-19 Response Advisory Board - 2020
 - Advisor to President-Elect Joe Biden and Vice-President Elect Kamala Harris' DOL Agency Review Transition Team - 2020
 - COVID-19 Re-Open America/Back to Work Safely Guidance Review Team - 2020-Present
 - COVID-19 Re-Open America Guidelines Task Force, 2020
 - Board Nominating Committee - 2019
 - Technical Reviewer for Education Session and/or Professional Development Course proposals for upcoming AIHce 2020 conference - 2019
 - Occupational Epidemiology: Committee Chair, 2013 -2014; 2018 - 2019; Vice Chair, 2012 - 2013; 2017 - 2018; Secretary, 2011 - 2012; 2016 - 2017
 - Occupational and Environmental Medicine Committee, 2011 - 2017
 - American Industrial Hygiene Association conference and exposition (AIHce), Professional Development, Course Instructor - Exposure Reconstruction and Epidemiology - How to Benefit Future Epidemiology Studies, 2018
 - AIHce Professional Development, Course Instructor - Exposure Reconstruction: Tools for Assessing Past Exposures, 2017
 - AIHce Professional Development, Course Instructor - Epidemiology: Understanding Dose and Response, 2014
- > Toxicology and Industrial Health Journal Associate Editor, 2018 – Current
 - Editorial Board, Associate Editor 2018 – Current
 - Guest Editor of Special Journal Edition – September 2020
 - Volume 36, Issue 9: Special Issue: Industrial Hygiene, toxicology and public health aspects of COVID-19, p. 605-742
- > Society for Risk Analysis (SRA), 2018 – Current
- > Monticello Conference regarding Elongated Mineral Particles (EMPs), Invited Attendance, 2017

- > American Conference of Governmental Industrial Hygienists (ACGIH), 2016 – Current
- > Society for Epidemiologic Research (SER), 2015 – Current
- > American Board of Industrial Hygiene (ABIH) Job Analysis Panel, Appointed, 2014
- > International Society of Exposure Science (ISES), 2009 – 2010; Current
- > Invited Reviewer, Toxicology and Applied Pharmacology

Publications

Peer-Reviewed Publications

- > Hollins, D. and A.L. Kiropes. 2020. Evaluating the industrial hygiene, toxicology, and public health aspects of COVID-19. *Tox Ind Health*. 36(9):605-606.
- > Jacobs, N., K. Chan, V. Leso, A. D'Anna, D. Hollins, and I. Iavicoli. 2020. A critical review of methods for decontaminating filtering facepiece respirators. *Tox Ind Health*. 36(9):654-680.
- > Towle, K., Hwang, R., Fung, E., Hollins, D., and Monnot, D. 2020. Hair dye and risk of skin sensitization induction: a product survey and quantitative risk assessment for para-phenylenediamine (PPD). *Cutaneous and Ocular Toxicol*. DOI: 10.1080/15569527.2020.1802740.
- > Hollins, D., A. Burns, K. Unice, and D.J. Paustenbach. 2019. An analysis of workplace exposures to asbestos at three steel mills located in the United States (1972-1982). *Tox Ind Health*. 35(11-12):726-737.
- > Pierce, J.S., A.S. Riordan, E.W. Miller, S.H. Gaffney, and D.M. Hollins. 2017. Evaluation of the presence of asbestos in cosmetic talcum products. *Inhal Toxicol*. 29(10): 443-456.
- > Madl, A.K., K.D. Devlin, A.L. Perez, D.M. Hollins, D.M. Cowan, P.K. Scott, K. White, T.J. Cheng, and J.L. Henshaw. 2015. Airborne asbestos exposures associated with gasket and packing replacement: A simulation study of flange and valve repair work and an assessment of exposure variables. *Reg Tox Pharmacol*. 71(1): 35-51.
- > Madl, A.K., D.M. Hollins, K.D. Devlin, E.P. Donovan, P.J. Dopart, P.K. Scott, and A.L. Perez. 2014. Airborne asbestos exposures associated with gasket and packing replacement: A simulation study and meta-analysis. *Reg Tox Pharmacol*. 69(3): 304-319.
- > Cyrs, W.D., M.H. Le, D.M. Hollins and J.L. Henshaw. 2014. Settling the Dust: Silica Past, Present & Future. *Professional Safety*. April 2014: 38-43.
- > Hollins, D.M., B.D. Kerger, K.M. Unice, J.S. Knutsen, A.K. Madl, J.E. Sahmel, and D.J. Paustenbach. 2013. Airborne benzene exposures from cleaning metal surfaces with small volumes of petroleum solvents. *Int J Hyg Env Health* 216(3): 324-332.
- > Ronk CJ, D.M. Hollins, M.J. Jacobsen, D.A. Galbraith, and D.J. Paustenbach. 2013. Evaluation of pulmonary function within a cohort of flavorings workers. *Inhal Toxicol* 25(2): 107-117.
- > Sahmel J., K.D. Devlin, D.J. Paustenbach, D.M. Hollins, and S.H. Gaffney. 2010. The role of exposure reconstruction in occupational human health risk assessment: Current methods and a recommended framework. *Crit Rev Toxicol* 40(9): 799-843.

- > Paustenbach, D.J., J.S. Knutsen, D.M. Hollins, J.E. Sahmel and A.K. Madl. 2010. Comparison of modeled and measured concentrations of airborne benzene from the use of petroleum-based solvents spiked with low levels of benzene. *Chemico-Bio Inter* 184: 296-298.
- > Hollins, D.M., M.A. McKinley, C. Williams, A. Wiman, D. Fillos, P.S. Chapman and A.K. Madl. 2009. Beryllium and lung cancer: A weight of evidence evaluation of the toxicological and epidemiological literature. *Crit Rev Toxicol* 39(S1):1-32.
- > Hollins, D.M., D.J. Paustenbach, K. Clark and C.A. Mangold. 2009. A Visual Historical Review of Exposure to Asbestos at Puget Sound Naval Shipyard (1962-1972). *J Tox Env Health B* 12: 124-156.
- > Murbach, D.M., A.K. Madl, K.M. Unice, J.S. Knutsen, P.S. Chapman, J.L. Brown and D.J. Paustenbach. 2008. Airborne Concentrations of Asbestos Onboard Maritime Shipping Vessels (1978-1992). *Ann Occup Hyg* 52(4): 267-279.
- > Madl, A.K., L.L. Ferriby, D.M. Murbach, K.A. Fehling, B.L. Finley and D.J. Paustenbach. 2008. Exposure to Chrysotile Asbestos Associated with Unpacking and Repacking Boxes of Automobile Brake Pads and Shoes. *Ann Occup Hyg* 52(6): 463-479.
- > Jiang, G.C., A.K. Madl, K.J. Ingmundson, D.M. Murbach, K.A. Fehling, D.J. Paustenbach and B.L. Finley. 2008. A Study of Airborne Chrysotile Concentrations Associated with Handling, Unpacking, and Repacking Boxes of Automobile Clutch Discs. *Regul Toxicol Pharma* 51: 87-97.

Presentations

Presentation/Abstracts

- > Parker, J. and D. Hollins. Invited Presentation. 2021. AIHA's Response to COVID-19 and the Creation of the Back to Work Safety™ Guidelines. Central Industrial Hygiene Association of India (CIHA) Annual Virtual Conference. February 10, 2021.
- > Hollins, D. and N. Jacobs. Invited Presentation. 2020. Facility Operations during COVID-19: Guidelines for Protecting Worker Health and Safety. The Adhesive and Sealant Council. October 29, 2020.
- > Hollins, D.M. Invited Presentation. 2020. Reopening Libraries - Smart Strategies for a Healthy Restart. American Library Association Conference. June 26, 2020.
- > Towle, K.M., A.S. Riordan, J.S. Pierce, B.L. Finley and D.M. Hollins. Exposure to Asbestos and Risk of Ovarian Cancer: A Systematic Literature Review and Meta-Analysis. Poster Presentation. American Industrial Hygiene Conference & Exposition (AIHce). May 20-22, 2019. Minneapolis, MN.
- > Hollins, D.M., A. Banducci and J. Sahmel. An Evaluation of Indoor and Outdoor Ambient Asbestos Exposure to the General Population: A Review. Poster Presentation at the American Industrial Hygiene Conference & Exposition (AIHce) Philadelphia, PA. May 20-23, 2018.
- > Nembhard, M.D., A.R. McEwen, J.L. Dent, D.M. Hollins, and C.A. Barlow. Near-Source Community Exposure to Asbestos: A Review. Poster Presentation at the American Industrial Hygiene Conference & Exposition (AIHce). Philadelphia, PA. May 20-23, 2018.
- > Burns, A. M., S. Benson, E. Best, D.M. Hollins, and B. Finley. An Ecological Epidemiology Investigation of Talc Consumption in the US and Trends in Female

- Cancer Rates. Abstract: PS1881. Poster presentation at the Society of Toxicology (SOT) Meeting. March 11-15, 2018. San Antonio, TX.
- > Hollins, D.M. Invited Presentation. 2017. Science of take-home exposures. Presented at the Defense Research Institute Asbestos Medicine Seminar. November 2-3, 2017. Las Vegas, NV.
 - > Gunter, M. and D.M. Hollins. Invited Presentation. 2017. Talc: A Weight of Evidence Evaluation Regarding Exposure, Risk, and Causation. Presented at the Defense Research Institute Asbestos Medicine Seminar. November 2-3, 2017. Las Vegas, NV.
 - > Gunter, M. and D.M. Hollins. Invited Presentation. 2017. Talc: Asbestiform and Non-Asbestiform/Exposure and Risk. Presented at the Defense Research Institute Asbestos Medicine Seminar. November 2-3, 2017. Las Vegas, NV.
 - > Hollins, D.M., P.K. Scott, J.L. Bare, C.A. Barlow, M. Nembhard, J.R. Maskrey and D.J. Paustenbach. 2017. Estimating Asbestos Emissions from Former Industrial Sites and Estimating Resulting Airborne Concentrations in the Surrounding Community: A Review of Methodologies. Abstract #3248. Poster Presentation at Society of Toxicology Annual Meeting. March 12-16, 2017. Baltimore, MD.
 - > Hollins, D.M. 2016. Invited Presentation. Asbestos Exposures and Cosmetic Talc: State of the Science. Presented at the Asbestos Summit. November 9, 2016. New Orleans, LA.
 - > Hollins, D.M. 2016. Invited Presentation. Occupational Risk Assessment: Strategies for OEL Development and Selection. Southern California Joint Technical Session (JTS) American Industrial Hygiene Association (AIHA)/American Society of Safety Engineers (ASSE). October 26, 2016. Long Beach, CA.
 - > Hollins, D.M. 2016. Invited Presentation. The Science of Take-Home Exposures. Presented at the FETTI conference. September 2016. Chicago, IL
 - > Hollins, D.M. 2016. Invited Presentation. The Current Debate Regarding the Toxicology and Epidemiology of Chrysotile Asbestos: The Role of Fiber Length. Presented at the Defense Asbestos Litigation Seminar. June 8-10, 2016. Las Vegas, NV.
 - > Hollins, D.M. 2016. Invited Presentation. Perspectives on Preparation for the CIH Exam. Presentation at American Industrial Hygiene Conference & Exposition (AIHce) May 21-26, 2016. Baltimore, MD.
 - > Hollins, D.M. 2016. Invited Presentation. Take Home and Bystander Asbestos Exposures: What is the Correlation with Exposures in the Workplace? Presented at the National Association of Railroad Trial Counsel. March 15, 2016. St. Petersburg, FL.
 - > Hollins, D.M. 2015. Invited Presentation. Strategies for Internal OEL Development. Presented at the California Industrial Hygiene Conference (CIHC). December 8, 2015 in San Francisco, CA.
 - > Abelmann, A., K.M. Unice, S.H. Gaffney, A.M. Urban, M. Liang, L. McCarthy, D.M. Hollins, J.L. Henshaw and B.L. Finley, Airborne Concentrations of Naturally Occurring Diacetyl Associated with Various Coffee Products. Poster presentation at the American Industrial Hygiene Conference & Expo (AIHce). May 30-June 4, 2015. Salt Lake City, UT.
 - > Urban, A.M., S.H. Gaffney, L. McCarthy, D.M. Hollins, A. Abelmann, K.M. Unice, M. Liang, B.L. Finley, J.L. Henshaw. 2015. Volatile Organic Compounds Released from

- Spreading Ground Coffee during a Simulated Industrial Task. 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.
- > Hollins, D.M. 2014. Invited Presentation. Lung Cancer, Asbestosis, and Smoking: The Current Controversies. Presented at the ADC conference. May 20, 2014. San Francisco, CA.
 - > Ronk, C.J., D.M. Hollins, M.J. Jacobsen, D.A. Galbraith, H.M. Bolstad, and D.J. Paustenbach. 2013. Pulmonary Obstruction among Workers at a Food Flavorings Manufacturing Facility. Abstract ID: 5315, Poster presentation at The International Society of Exposure Science (ISES), Basel, Switzerland, August 19 - 23, 2013.
 - > Bolstad, H.M., D.M. Hollins, C.J. Ronk, A.M. Foda, R.J. Ward, M.J. Jacobsen, and D.J. Paustenbach. 2013. Occupational Exposures Measured in a Food Flavoring Manufacturing Facility. Abstract ID: 5397, Poster presentation at The International Society of Exposure Science (ISES), Basel, Switzerland, August 19 - 23, 2013.
 - > Hollins, D.M., J.L. Henshaw, M.H. Le, W.D and W.D. Cyr. 2013. Settling the Dust: Silica Past, Present and Future. Session Number 608 at The American Society of Safety Engineers Annual Conference, June 24-27, 2013. Las Vegas, NV.
 - > Ronk, C.A., D.M. Hollins, M.E. Jacobsen, A. Foda, D.A. Galbraith, and D.J. Paustenbach. 2013. Pulmonary Restriction among Workers at a Food Flavoring Manufacturing Facility; A Follow Up Study. Session: Occupational and Environmental Epidemiology. SR-146-03. Podium presentation at The American Industrial Hygiene Conference & Exposition (AIHce) in Montreal, Quebec, Canada. May 23, 2013.
 - > Hollins, D.M. C.A. Ronk, A. Foda, R. Ward, M.E. Jacobsen, and D.J. Paustenbach. 2013. Inhalation Exposure to Food Flavorings at a Manufacturing Facility. Session: IH General Practice. Podium presentation at The American Industrial Hygiene Conference & Exposition (AIHce) in Montreal, Quebec, Canada. May 22, 2013. Presentation Number: SR-131-03.
 - > Bolstad, H.M., K.M. Unice, J. Maskrey, D.M. Hollins, B.D. Kerger and D.J. Paustenbach. 2013. Airborne Diacetyl from Cooking and Consumption of Microwave Popcorn: Estimation of Consumer Exposure with a Two-zone Near-field/Far-field Model. Abstract #1268. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013, San Antonio, Texas.
 - > Ronk, C.J., D.M. Hollins M.J. Jacobsen, A.M. Foda, D.A. Galbraith and D.J. Paustenbach. 2013. Lack of an Association between Cumulative Exposure to Diacetyl and Changes in Pulmonary Health among Workers at a Food Flavorings Manufacturer. Presented at the Society of Toxicology's (SOT) 52nd Annual Meeting, March 10-14, 2013 at the Henry B. Gonzalez Convention Center in San Antonio, Texas. March 11, 2013. Epidemiology: Exposures and Associations. Abstract #478/Poster Board #253.
 - > Hollins, D.M., M. Jacobsen, D. Paustenbach, D. Galbraith, and C. Ronk. 2012. Comparing Pulmonary Function Data in Flavorings Manufacturing Workers. Presented at the 45th Society for Epidemiologic Research (SER) Annual Meeting. June 27 - 30, 2012, in Minneapolis, MN.
 - > Pierce, J. L. Spicer, A. Abelmann, R. Adams, L. Roberts, L. Johns, D. Hollins, B. Finley. Characterization of Airborne Diacetyl Concentrations Associated with the Consumption of Different Types of Wine. Presented at the International Food Technology (IFT) Annual Meeting. June 26-28, 2012 in Las Vegas, NV.

- > Hollins, D.M., D. Galbraith, B. Finley and J. Pierce. 2011. Occupational Exposure to Artificial Butter Flavorings: A State-of-the-Art Analysis. Abstract# PO 121-2. American Industrial Hygiene Conference & Exhibition (AIHce). May 14-19, 2011. Portland, OR.
- > Sahmel, J., K.D. Devlin, D.J. Paustenbach, D.M. Hollins and S.H. Gaffney. 2011. Exposure Reconstruction in Occupational Human Health Risk Assessment: Current Methods and a Recommended Framework. Abstract# PO 126-4. American Industrial Hygiene Conference & Exhibition (AIHce). May 14-19, 2011. Portland, OR.
- > Madl, A.K., D.M. Hollins, E.P. Donovan, K.D. Devlin, P.S. Dopart and P.K. Scott. 2011. Airborne Asbestos Concentrations Associated with Replacement of Internal Valve Gaskets and Packing. Abstract # PO 109-8. American Industrial Hygiene Conference & Exhibition (AIHce). May 14-19, 2011. Portland, OR.
- > Sahmel J., K.D. Devlin, D.J. Paustenbach, D.M. Hollins and S.H. Gaffney. 2010. The role of exposure reconstruction in occupational human health risk assessment: current methods and a recommended framework. Abstract # M3-E.2. Society for Risk Analysis (SRA). December 5-8, 2010. Salt Lake City, Utah.
- > Hollins, D.M., D.A. Galbraith and B.L. Finley. 2010. Occupational Exposure to Diacetyl and Potential Health Effects: A Weight of Evidence Analysis. Abstract# P.47. Society for Risk Analysis (SRA). December 5-8, 2010. Salt Lake City, Utah.
- > Hollins, D.M., A.K. Madl, D.J. Paustenbach and J.S. Knutsen. 2009. Evaluation of Exposures to Airborne Asbestos from Work on Suspected ACMs on Maritime Shipping Vessels (1978-1991). Abstract #241 for Podium (PO 135) at the American Industrial Hygiene Conference & Exhibition (AIHce). May 30-June 4, 2009. Toronto, Ontario, Canada.
- > Hollins, D.M., R. Balzer, A.K. Madl and D.J. Paustenbach. 2009. Bricklayer Exposures to Airborne Asbestos in Steel Mills (1972-1982): An Updated Analysis. Abstract #242 for Podium (PO 135) at the American Industrial Hygiene Conference & Exhibition (AIHce). May 30-June 4, 2009. Toronto, Ontario, Canada.
- > Murbach, D.M., K.D. Devlin, K.S. Franke and D.J. Paustenbach. 2008. A Review of Historical Ambient Airborne Asbestos Concentrations in Cities and Buildings: 1950s to the Present Day. Abstract# 1274. ISEE-ISEA Joint Annual Conference. October 12-16, 2008. Pasadena, California.
- > Knutsen, J., D.M. Murbach, D.J. Paustenbach and A.K. Madl. 2008. Comparison of Modeled and Measured Concentrations of Airborne Benzene from the Use of Petroleum-Based Solvents Spiked with Low Levels of Benzene. Platform presentation for Roundtable (PO 109) at the American Industrial Hygiene Conference & Exhibition (AIHce). May 31-Jun 5, 2008. Minneapolis, MN.
- > Finley, B.L., A.K. Madl, D.M. Murbach, K.A. Fehling, D.J. Paustenbach and G.C. Jiang. 2008. A Study of Airborne Chrysotile Concentrations Associated with Handling, Unpacking, and Repacking Boxes of Automobile Clutch Discs (circa 1950-1980). Abstract #1458. Society of Toxicology (SOT) Annual Meeting. March 17-20, 2008. Seattle, WA.
- > Jiang, G.C.-T., A.K. Madl, D.M. Murbach, K.A. Fehling, B.L. Finley and D.J. Paustenbach. 2007. Exposure to Chrysotile Asbestos Associated with Handling, Unpacking, and Repacking Boxes of Automobile Clutch Discs. Abstract #94. Presented at the Conference of the International Society of Exposure Analysis (ISEA), October 14-18, 2007. Durham/Research Triangle Park, NC.
- > Chapman, P., P.R. Williams, J. Kuykendall, M.A. McKinley, K. Franke, D.M. Murbach, A. Tachovsky and D.J. Paustenbach. 2007. Meta-Analysis of Asbestos-Related

- Disease Among Skilled Craftsmen in Various Occupational Settings. International Society of Exposure Analysis (ISEA), October 14-18, 2007. Abstract#300. Durham/Research Triangle Park, NC.
- > Murbach, D.M., C.M. English, J.S. Knutsen, D.J. Paustenbach and A.K. Madl. 2007. Reconstruction of Airborne Benzene Exposures Associated with the Use of Commercial Products Containing Solvents. Abstract#357. International Society of Exposure Analysis (ISEA), October 14-17, 2007. Durham/Research Triangle Park, NC.
 - > Murbach, D.M., A.K. Madl, P.S. Chapman, K.M. Unice, J.L. Brown and D.J. Paustenbach. 2006. Background Concentrations of Airborne Asbestos Onboard Maritime Shipping Vessels (1978-1992). Abstract#P-608. International Conference on Environmental Epidemiology and Exposure (ISEA/ISEA) Conference, September 2-6, 2006. Paris, France.
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