

# CURRICULUM VITAE

## Leena A. Nylander-French, MS, PhD, CIH

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The Gillings School of Global Public Health  
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### Education

- 1991—1994 PhD in Occupational and Environmental Health, Industrial Ergonomics; Royal Institute of Technology, Stockholm, SWEDEN (Mentor: Prof. U. Ulfvarson)
- 1983—1987 MSc in Environmental and Industrial Hygiene; The University of Kuopio, Kuopio, FINLAND (Mentor: Prof. T. Raunemaa)
- 1983—1987 Cum Laude Approbatur in Chemistry; The University of Kuopio, Kuopio, FINLAND
- 1983—1986 BSc in Environmental Hygiene; The University of Kuopio, Kuopio, FINLAND (Mentor: Prof. T. Raunemaa)

### Employment

- 2008 to Present **Professor of Occupational and Environmental Health**, Department of Environmental Sciences and Engineering (ESE), Gillings School of Global Public Health (SPH), The University of North Carolina at Chapel Hill (UNC-CH), Chapel Hill, North Carolina, USA. *Research and teaching focuses on understanding the inter-relationship between inhalation and skin exposures, the effect of work practices and work environment on the variability of biomarker levels, and the effect of individual genetic and epigenetic differences on the function of enzymes that detoxify hazardous agents, in order to establishing the relationship between xenobiotic exposure and mechanisms of toxicity leading to disease in quantitative exposure and risk assessment.*  
[Department Environmental Sciences and Engineering](#)
- 2018 to Present **Director**, North Carolina Occupational Safety and Health Education and Research Center (NC OSHERC), SPH, UNC-CH, North Carolina, USA.  
[NC OSHERC](#)
- 2012 to Present **Occupational Exposure Science and Industrial Hygiene Program Director**, NC OSHERC Training Program, SPH, UNC-CH, North Carolina, USA.  
[Occupational Exposure Science – Industrial Hygiene](#)
- 2002 to 2012 **Industrial Hygiene Program Director**, NC OSHERC Training Program, SPH, UNC-CH, North Carolina, USA.
- 2002 to 2007 **Associate Professor**, ESE, SPH, UNC-CH, North Carolina, USA. *Research and teaching focused on new scientific approaches to quantitatively measure skin exposure to toxicants and sophisticated exposure-modeling tools in an effort to standardize and improve exposure and risk assessment.*

- 2006 to 2010 **Core Director**, Exposure and Biomarkers Research Core, NIEHS Center for Environmental Health and Susceptibility, UNC-CH, North Carolina, USA.
- 1997 to 2002 **Assistant Professor**; ESE, SPH, UNC-CH, North Carolina, USA. *Research and teaching interests are directed towards environmental/occupational exposure and risk assessment and exposure modeling, prospective and retrospective risk assessment for occupational/environmental exposure, and development of biological monitoring methods for skin exposure to toxicants.*
- 1996 to 1999 **Guest Researcher**, National Institute of Environmental Health Sciences, Laboratory of Environmental Carcinogenesis and Mutagenesis (Raymond W. Tennant, Chief), Research Triangle Park, North Carolina, USA. *Research to establish molecular markers for acrylate induced toxicity to the skin and nasal passages and to determine the relationships between exposure and target tissue dose received and the dose response relationship between worker exposure and observed health effects.*
- 1995 to 1996 **Post-Doctoral Fellow**, Biostatistics for Research in Environmental Health, NIEHS Training Grant #T32ES07018 (Profs. Lawrence L. Kupper, Stephen M. Rappaport, and David Savitz); Departments of Environmental Sciences and Engineering, Epidemiology, and Biostatistics, SPH, UNC-CH, North Carolina, USA. *Development of procedures using statistical and epidemiological principles to model and determine the associated risks and relationship to adverse health effects from occupational exposure to hazardous chemicals.*
- 1994 to 1996 **Senior Scientist, Industrial Hygienist**, Department of Technology/Industrial Hygiene (Gunnar Rosén, Group Leader), National Institute for Working Life, Solna, SWEDEN. *Independent research on occupational and industrial hazards, to develop methods for monitoring and controlling worker exposure and hazard prevention strategies for industry. Industrial hygiene practice and education and training of industry on-site industrial hygienists and engineers, managers, and workers. Conduct joint Institute-Industry workshops on exposure assessment and interpretation and advise on work practices and personal protection.*
- 1991 to 1994 **Research Scientist, Industrial Hygienist**, Division of Industrial Hygiene (Gunnar Rosén, Group Leader), National Institute of Occupational Health, Solna, SWEDEN. *Investigate potential health hazards in the surface treatment (application of lacquers and paints) of wood, especially by radiation curing and development of methods for monitoring and controlling worker exposure and hazard prevention strategies for industry. Collaboration on the development and use of animal models for investigation of mechanisms of toxicity on industrial chemicals and physical agents used in the radiation curing of lacquers and paints. General industrial hygiene practice and education and training of industry on-site industrial hygienists and engineers, managers, and workers.*
- 1991 **Visiting Scientist**, Office of Occupational Health and Technical Services (John M. Dement, Director), National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, USA. *Determination of data gaps in exposure, monitoring of exposure, and toxic hazards to workers in the processing of wood and the generation of wood dust.*

- 1989 to 1990     **Chemist**, Department of Industrial Hygiene and Toxicology (Prof. Marja Simonsuuri-Sorsa, Chief and Pirkko Pfäffli, Head, Industrial Hygiene and Chemistry Laboratory), Institute of Occupational Health, Helsinki, FINLAND. *Research on occupational exposure to styrene and styrene oxide and related adverse health effects in workers employed in the reinforced plastics industry.*
- 1988             **Research Technician** (Hannu Janhunen, Group Leader), Regional Institute of Occupational Health, Lappeenranta, FINLAND. *Development of an advanced visualization method of gaseous tracers and solvent vapors for evaluation of local exhausts in the work place.*
- 1986 to 1987     **Research Technician** (Hannu Janhunen, Group Leader), Regional Institute of Occupational Health, Lappeenranta, FINLAND. *Research on dustiness testing and classification of powdered paper chemicals.*

### Professional Certification

- 1993 – present   Certified Industrial Hygienist (CIH #6003) and Diplomate; The American Board of Industrial Hygiene, Lansing, Michigan, USA.

### Honors and Awards:

- 2013   Kenan Research and Scholarly Faculty Leave, UNC-CH, North Carolina, USA
- 2012   Michigan Industrial Hygiene Society (MIHS) Best Paper Award 2011 for publication in the Journal of Occupational and Environmental Hygiene
- 1998   Special Emphasis Research Career Award (SERCA), NIOSH/CDC, USA
- 1992   Swedish Work Environment Fund Award (Arbetsmiljöfonden), SWEDEN
- 1991   Finnish Society for Promotion of Occupational Health Award (Työterveyden edistämisyhdistys), FINLAND
- 1991   Finnish Occupational Hygiene Society Award (Suomen työhygienian seura), FINLAND
- 1990   Finnish Work Environment Fund Award (Työsuojelurahasto), FINLAND

### Professional Societies:

- American Conference of Governmental Industrial Hygienist, 1993 – Present
- American Board of Industrial Hygiene, 1993 – Present
- International Society of Exposure Science, 2016 – Present
- Society of Toxicology, 2000 – Present
- American Industrial Hygiene Association, 1991 – 2010
- International Society for the Study of Xenobiotics, 2005 – 2008
- Environmental Mutagen Society, 1994 – 2005
- British Occupational Hygiene Society, 1997 – 2005
- Finnish Occupational Hygiene Society, 1987 – 1999

### Department, School, and University Service

- Chair, ESE Space Committee*, ESE, SPH, UNC-CH, 2024 – Present
- IRB Approver for ESE*, ESE, SPH, UNC-CH, 2024 – Present
- EPAP Approver for ESE faculty*, ESE, SPH, UNC-CH, 2019 – Present
- Member, ESE Space Committee*, ESE, SPH, UNC-CH, 2021 – 2023
- Member, MPH Admissions Committee*, ESE, SPH, UNC-CH, 2019 – 2022
- Co-Chair, Conflict of Interest Committee*, SPH, UNC-CH, 2022.

*Member, Faculty Post-tenure Committee, ESE, SPH, UNC-CH, 2022*  
*Chair, Faculty Promotion Committee, ESE, SPH, UNC-CH, 2017 – 2022*  
*Reviewer, Gillings Innovation Labs (GILs) Proposals, SPH, UNC-CH, 2008 – 2021.*  
*Chair, Conflict of Interest Committee, SPH, UNC-CH, 2010 – 2020.*  
*Member, University-wide Conflict of Interest Committee, UNC-CH, 2010 – 2020.*  
*Member, Curriculum of Toxicology Doctoral Qualifying Exam Committee, 2014 – 2020.*  
*Member, Research Council, SPH, UNC-CH, 2008 – 2018.*  
*Chair of the Appointments, Promotions, and Tenure Committee, SPH, UNC-CH, 2015 – 2017.*  
*Project Manager, Faculty Qualifications and Faculty Policies and Procedures, Council on Education for Public Health (CEPH) Self-study, SPH, UNC-CH, 2016 – 2017.*  
*Member, Faculty Orientation Task Force, Development of New Faculty Orientation Session, SPH, UNC-CH, 2016 – 2017*  
*Member, Appointments, Promotions, and Tenure Committee, SPH, UNC-CH, 2014 – 2015.*  
*Member, Faculty Search Committee, ESE, SPH, UNC-CH, 2015*  
*Member, Faculty Search Committee, ESE, SPH, UNC-CH, 2014*  
*Member, Curriculum of Toxicology Executive Board, UNC-CH, 2009 – 2012*  
*Member, Faculty Promotion Committees, ESE, SPH, UNC-CH, 2008 – 2013*  
*Reviewer, Congressional Research Funding Request Proposal, SPH, UNC-CH, 2008 – 2009*  
*Member, School of Public Health Awards Committee, UNC-CH, 2008*  
*Reviewer, Bridge Funding Review, SPH, UNC-CH, 2008*  
*Chair, Faculty Search Committees, ESE, SPH, UNC-CH, 2005 – 2007*  
*Reviewer, Pilot Projects Program, Center for Environmental Health and Susceptibility, UNC-CH, 2003 – 2004*  
*Member, Strategic Planning Committee, ESE, SPH, UNC-CH, 2000 – 2002 and 2005 – 2006*  
*Member, Student Admissions Committee, ESE, SPH, UNC-CH, 2002 – 2003*  
*Member, Focus Area Committee, ESE, SPH, UNC-CH, 2002 – 2003*  
*Member, Curriculum Revision Committee, ESE, SPH, UNC-CH, 2000 – 2001*  
*Member, Committee on Faculty Compensation, ESE, SPH, UNC-CH, 1997*

### **National and International Service**

*Deputy Editor, American Journal of Industrial Medicine, June 2019 – Present.*  
*Member of the Organization for Economic Co-Operation and Development (OECD) Expert group (EG) on Test Guidelines Programme (TGP) for Respiratory sensitization led jointly by Austria, Luxembourg, Netherlands, United States, and ICAPO (International Council on Animal Protection in OECD Programmes), September 2023 – Present.*  
*Member of the Biological Exposure Indices Committee, American Conference of Governmental Industrial Hygienists: 2000 – Present.*  
*External Scientific Reviewer, DTSC's Proposed Nail Products Containing Methyl Methacrylate (MMA) as a Priority Product, The California Environmental Protection Agency (CalEPA), 2023.*  
*External Scientific Reviewer, PFAS Analysis of Stored Serum Samples of Services, Manufacturing, and Construction Workers Protocol, CDC/NIOSH Division of Field Studies and Engineering (DFSE), 2023.*

*Member of the Immune, Infectious and Dermal Disease Prevention Cross-Sector Council, National Occupational Research Agenda (NORA), <https://www.cdc.gov/nora/councils/iid/agenda.html>. CDC/NIOSH, 2016 – Present.*

*Appointed Study Section Member, Safety and Occupational Health Study Section Review, CDC/NIOSH, 2019 – 2023.*

*President, Association of University Programs in Occupational Health and Safety (AUPOHS), 2021.*

*President-elect, Association of University Programs in Occupational Health and Safety (AUPOHS), 2020.*

*Grant Reviewer, SRP R25 Research Program Occupational Health and Safety Education Programs on Emerging Technologies “Summer Research Education Experience Program”, NIEHS, December 2020.*

*Reviewer, Toxicological Profile Document, National Center for Environmental Health/Agency for Toxic Substance and Disease Registry (NCEH/ATSDR), June 2020.*

*Grant Reviewer, Superfund Hazardous Substances Research and Training Program (P42), NIEHS, July 2019.*

*Grant Reviewer, NIOSH Safety and Occupational Health Study Section (SOHSS) Member Conflict Review, June 2019.*

*Grant Reviewer, NIOSH FY20 Large NORA Intramural Proposal Review, February 2019.*

*Editorial Board Member, Archives of Environmental and Occupational Health, 2005 – Present.*

*Study Section Member, Safety and Occupational Health Study Section Review, CDC/NIOSH, 2002 – 2019.*

*Committee Member and Author, IARC Monographs Working Group, IARC Monographs on the Evaluation of Carcinogenic Risks to Humans - Volume 121, Styrene, Styrene-7,8-oxide, and Quinolone, The International Agency for Research on Cancer, World Health Organization, 2017 – 2018.*

*Grant Reviewer, The Finnish Work Environment Fund, Helsinki, Finland, 1998 – Present.*

*Grant Reviewer, Research Foundation - Flanders (Fonds Wetenschappelijk Onderzoek – Vlaanderen, FWO), Belgium, 2017.*

*Scientific Reviewer, 2016 Basic Research Science Review, Defense Threat Reduction Agency, Research and Development Directorate, Chemical and Biological Department, July 26-28, 2016.*

*Technical Advisor and Reviewer for Occupational Exposures and Health Issues, National Institute for Occupational Safety and Health, 2015 – 2016.*

*Reviewer, Center for Human Health and the Environment Pilot Project Program North Carolina State University, August 2015.*

*Study Section Member, NIH, Centers of Excellence on Environmental Health Disparities Research. Washington, DC, March 30 – April 1, 2015.*

*Invited Workshop Participant, Forest Use, Energy and Livelihoods (FUEL) Transformative Knowledge Network (TKN). Musangano Lodge, Zimbabwe, February 16 – 20, 2015.*

*Technical Advisor and Reviewer for Immediately Dangerous to Life or Health (IDLH) Value Profiles, National Institute for Occupational Safety and Health, 2014 – 2015.*

*Technical Advisor and Reviewer for Skin Notation Project, CDC/NIOSH, 2013 – 2014.*

*Reviewer for Promotions and Tenure, Tulane University, School of Public Health and Tropical Medicine, 2013 and 2014.*

- Reviewer of National Toxicology Program's Toxicity Report*, National Institutes of Health, Public Health Service, U.S. Department of Health and Human Services, December 2013.
- Reviewer of the "Screening Assessment on Methylenediphenyl Diisocyanate and Diamine (MDI/MDA) Substances"*, Health Canada, April 2013.
- Member of the Scientific Committee and Toxicology/Animal Models/Biomarkers Subcommittee*, International Conference on Isocyanates and Health: Past, Present and Future, Bethesda, Maryland, April 3 – 5, 2013.
- Course Developer and Continuing Education Course "Directions in Biomonitoring"*, 30<sup>th</sup> Annual Conference of the Australian Institute of Occupational Hygienists, Adelaide, Australia, December 3, 2012.
- Member of the on Acute Exposure Guideline Levels Committee*, National Academy of Sciences/National Research Council, Institute of Medicine. 2006 – 2011.
- Member of the Biological Monitoring Committee*, American Industrial Hygiene Association 2000 – 2011.
- Session Chair*, 7<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Beijing, China, September 10 – 12, 2007.
- Reviewer of the US EPA National Center for Environmental Assessment report "Dermal Exposure Assessment, a Summary of EPA Approaches"*, July 2007.
- Scientific Committee Member and Co-Chair of the Abstracts and Posters Subcommittee*, 3<sup>rd</sup> Occupational and Environmental Exposures to Skin Conference (OEESC-2007). National Institute for Occupational Safety and Health, Golden, Colorado, USA, June 17 – 20, 2007.
- Study Section Member*, NIEHS, Manufactured Nanomaterials: Physico-chemical Principals of Biocompatibility and Toxicity. Washington, DC, May 15 – 17, 2007.
- Member of the National Occupational Research Agenda Services Sector Council*, NIOSH/CDC. The council was charged to develop a strategic plan that identifies the highest priority occupational safety and health issues in each sector and recommends research and intervention strategies to reduce the human and economic consequences of those issues. The plan served as a guide to the occupational safety and health research community across the nation and throughout the world. The Research Council also facilitated the implementation of the strategic plan. September 2006 – 2010.
- Reviewer for Book Proposal*, Patty's Industrial Hygiene, 2005
- Advisory Board Member and Pilot Grant Reviewer*, North Carolina Central University, Extramural Associates Research Development Award (EARDA), 2004 – 2006.
- Reviewer of the Skin Notation*, CDC/NIOSH, February 2004.
- Reviewer of the PSC-CUNY Research Award Program*, The City University of New York, 2003 – 2005.
- Scientific Platform Session Chairperson*, Society of Toxicology Annual Meeting, Salt Lake City, UT, March 9 – 13, 2003.
- Reviewer for Industrial Hygiene Applications*, U.S. Environmental Protection Agency's Peer Review Panel Meeting of applications received for high-level Scientist positions at ORD, March 25 – 27, 2003.
- Conference Organizer and Session Coordinator for "Assessing the Risk: Measuring and Predicting Exposures"*, 1<sup>st</sup> International Conference on Dermal Exposure and Disease. NIOSH. Washington D.C., USA, September 8 – 11, 2002.

*Coordinator for Biological Monitoring Session*, American Industrial Hygiene Conference and Exposition, American Industrial Hygiene Association and American Conference of Governmental Industrial Hygienists. New Orleans, LA, USA, June 2 – 7, 2001.

*Nomination Committee Member*, American Industrial Hygiene Association, 2001 – 2002.

*Committee Member of the National Academy of Sciences/National Research Council*, Institute of Medicine. Committee and Expert Panel on Gulf War and Health: A Review of the Literature on Pesticides and Solvents, 2000 – 2003.

*Study Section Member of the Special Emphasis Panel for Intervention Effectiveness*, CDC/NIOSH, 1999 – 2000.

*Study Section Member of the Educational Research Centers*, Primary reviewer for Industrial Hygiene Program, CDC/NIOSH, 1999.

*Reviewer for the EMF Science Program*, National Institute of Environmental Health Sciences, 1998.

### **Reviewer for Professional Journals:**

American Industrial Hygiene Association Journal, American Journal of Occupational Medicine, Analytical Biochemistry, Analytical Methods, Annals of Occupational Hygiene, Archives of Toxicology, Biomarkers, Cancer Epidemiology, Biomarkers and Prevention, Cell Biology and Toxicology, Chemosphere, Environmental and Molecular Mutagenesis, Environmental Research, Epigenomics, Experimental Dermatology, Indoor Air, International Archives of Occupational and Environmental Health, International Journal of Hygiene and Environmental Health, Journal of Environmental Monitoring, Journal of Occupational and Environmental Hygiene, Occupational Health Southern Africa, Occupational Hygiene, PLOS one, Stochastic Environmental Research and Risk Assessment, Toxicology Letters, Toxicology Mechanisms and Methods, Toxicological Sciences

### **Invited Lectures, Seminars, and Courses:**

1. Original Themed Session Organizer, *Can we have a Biological Exposure Index for that? How ACGIH develops and revises the BEIs<sup>®</sup>?*, International Occupational Hygiene Association Conference, Dublin, Ireland, June 9 – 13, 2024.
2. Principal Instructor, *Industrial Toxicology*, Short Course, North Carolina Occupational Safety and Health Education and Research Center's Spring Institute, Chapel Hill, NC, May 13 – 17, 2024.
3. Invited Presentation "*Is a Renewed Industrial Hygiene Profession and Training Emerging from the Global Pandemic?*" Triangle Industrial Hygiene and Safety Meeting, November 8, 2023.
4. Principal Instructor, *Industrial Toxicology*, Short Course, North Carolina Occupational Safety and Health Education and Research Center's Winter Institute, Chapel Hill, NC, March 13 – 17, 2023.
5. Keynote Lecture "*Biological Monitoring in Exposure Assessment*". Southeast Regional Research Symposium, University of South Florida, Tampa, Florida, USA, April 4 – 5, 2019.
6. *Biological Exposure Monitoring Certificate Program, Module 1: Introduction of Biological Monitoring*, American Conference of Governmental Industrial Hygienists, September 12, 2017.
7. Keynote Lecture "*Diisocyanate Biomarkers*". Isocyanates and Health: Past, Present and Future, Potomac, Maryland, USA, April 3 – 5, 2013.

8. Keynote Lecture “*Dermal Exposure Assessment, Biomarkers, and Modeling Approaches*”. 30<sup>th</sup> Annual Conference of the Australian Institute of Occupational Hygienists, Adelaide, Australia, December 1 – 5, 2012.
9. Continuing Education Course: “*Directions in Biological Monitoring*”. Australian Institute of Occupational Hygienists, Adelaide, Australia, December 2, 2012.
10. *Can Genetic Markers, Biomonitoring, and Exposure Assessment Be Used to Identify at Risk Susceptible Subpopulations?* NOSHCN 2011, International Conference & Exhibition on Occupational Risk Management, Champagne Sports Resort, Central Drakensberg, KwaZulu-Natal, South Africa, August 23 – 26, 2011.
11. *Can Genetic Markers, Biomonitoring, and Exposure Assessment Be Used to Identify at Risk Susceptible Subpopulations?* Society of Risk Analysis Annual Meeting, Baltimore, Maryland, December 6 – 9, 2009.
12. *The Total Dose Makes the Poison...Exposure Assessment and Biomarkers*. The Wistar Institute, Philadelphia, PA, October 14, 2009.
13. *Exposure Assessment and Biomonitoring*. North Carolina State University, Raleigh, NC, September 11, 2009.
14. *The Total Dose Makes the Poison...Amongst Other Things*. University of Montreal, Montreal, Canada, September 9, 2008.
15. *Pharmacokinetics of the Interaction between Inhaled and Dermal Absorption of Naphthalene, an Environmental Polycyclic Aromatic Hydrocarbon*. NCEH/ATSDR Seminar and Network Meeting, Sponsored by the Superfund Basic Research Program, NIEHS, Atlanta, GA, May 14, 2008.
16. *Dermal and Inhalation Exposures to Jet Propulsion Fuel Type 8 in the U.S. Air Force*. North Carolina Department of Environmental and Natural Resources, Raleigh, NC, October 24, 2007.
17. *Does Skin Exposure Matter or Not?* Department of Environmental and Molecular Toxicology, North Carolina State University, Raleigh, NC, October 17, 2006.
18. *Dermal Exposure: Moving Beyond Qualitative Assessment*. VII International Scientific Conference “Current and Future Challenges in Environmental Health, Toxicology, and Food Safety in Eastern and Central Europe”, Kyiv, Ukraine, May 2 – 5, 2006.
19. *Dermal Exposure: Moving Beyond Qualitative Assessment*. Swedish Occupational and Environmental Medicine Spring Meeting, Umeå, Sweden, April 26 – 28, 2006.
20. *Dermal Exposure: Moving Beyond Qualitative Assessment*. Yale School of Medicine, Occupational and Environmental Medicine, New Haven, CT, January 26, 2006.
21. *Xenobiotic Bioavailability: The Importance of Dermal Exposure*. Bioavailability Workshop, Superfund Basic Research Program, Elizabeth, NJ, November 9 – 11, 2005.
22. *Prevention of Occupational Allergic Contact Dermatitis – View from an Occupational Hygienist*. Occupational and Environmental Exposures of Skin to Chemicals, Stockholm, Sweden, June 12 – 15, 2005.
23. *Dermal Exposures – The Challenge*, University of Umeå, Sweden, September 25, 2002.
24. *Biological Monitoring in Exposure Assessment*. International Union of Toxicology (IUTOX) Continuing Education Course, Nanjing, China, October 15 – 16, 2001.
25. *Dermal Exposure Assessment: Skin Matters*. Unifying Concepts of Environmental Sciences and Engineering (ENVR 104), University of North Carolina, Department of Environmental Sciences and Engineering, Chapel Hill, NC, November 2001.



26. *Dermal Exposure Measurements with a Tape-Stripping Method*. National Institute for Occupational Safety and Health, Cincinnati, OH, June 1, 2000.
27. *Prospective Evaluation of Potential Hazards to Workers in the Radiation Cured Acrylate Lacquer Wood Surface Coating Industry*. Human Studies Division, US EPA, Chapel Hill, NC, January 12, 1994.

**Teaching:**Graduate Courses:

1. Fundamentals of Industrial Hygiene (ENVR 797), Principal Instructor, 2022 – Present.
2. Industrial Toxicology (ENVR 423), Principal Instructor, 2019 – Present.
3. Biological Monitoring in Exposure Assessment (ENVR 770), Principal Instructor, 2001 – Present.
4. Exposure Science in Toxicology (ENVR 890-012), Principal Instructor, 2011 – Present.
5. Health and Ecological Effects of Environmental Agents (ENVR 430), Co-instructor, 1997 – 2019.
6. Laboratory Techniques and Field Measurements (ENVR 411), Co-instructor, 2014 – 2019.
7. Toxicology Laboratory Rotation (TOX 715), Curriculum in Toxicology, UNC-CH, Principal Instructor, 2001 – 2008.
8. Unifying Concepts (ENVR 401), Co-instructor, 2005 – 2008.
9. Laboratory Techniques and Field Measurements (ENVR 411; formerly ENVR 111), Principal Instructor (with Drs. H. Weinberg and S. Whalen), 2003 – 2008.
10. Environmental Measurement Laboratory (ENVR 140), Principal Instructor, 1997 – 2002.

Lecture Contributions for Other UNC-CH Courses:

1. Introduction to Public Health (SPHG 600), *Occupational Health*, 2023
2. Environmental Exposure Assessment (ENVR 640), *The Total Dose Makes the Poison...Exposure Assessment & Biomarkers*, 2010 – 2021
3. Human Environmental Disease (PATH 726), *Dermal Exposures and Toxicity*, 2013
4. Theory and Practice of Evaluating Human Health Risks of Chemicals (ENVR 742), *Occupational Exposure Assessment*, 2012
5. Systems Biology in Environmental Health (ENVR 630), *Exposure Assessment*, 2012
6. Epidemiology for Environmental Science (ENVR 601), *Occupational Exposure Assessment in Epidemiology*, 2012
7. Environmental Epidemiology (EPID 785), *Exposure Assessment in Epidemiology*, since 2007
8. Occupational Epidemiology (EPID 780), *Exposure Assessment*, 1999 – 2007
9. ESE Seminar Series (ENVR 400), *Monitoring of Dermal Exposures*, 2000
10. Introduction to Air and Industrial Hygiene (ENVR 134), *Dermal Exposures*, 2001
11. Environmental Epidemiology Seminar series, 1999

Other Teaching Responsibilities:

Curriculum of Toxicology Doctoral Qualifying Exam Committee, 2014 – 2020.  
Grader for Doctoral Qualifying Exams in Epidemiology, 1999.

**Mentoring:**Current Advisees:

1. Choi, Ian; PhD student, ESE (anticipated graduation 2026)
2. Urbano, Nancy; PhD student, ESE (anticipated graduation 2027)

3. Kirby, Alicia; MS student, ESE (anticipated graduation 2024)
4. Bocklage, Clare; MS student, ESE (anticipated graduation 2024)
5. Craigen, Amanda; MSEE student, ESE (anticipated graduation 2025)
6. Carmon, Rachel; MPH student, ESE (anticipated graduation 2024)
7. Chappell, Nicholas; MPH student, ESE (anticipated graduation 2024)
8. Indu, Fnu; MPH student, ESE (anticipated graduation 2024)

Doctoral Dissertations Supervised:

1. Chao, Yi-Chun E.: *Determination of Dermal Exposure to JP-8 Jet Fuel Using the Tape-Strip Method*, Department of Environmental Sciences and Engineering, 2005.
2. Kim, David: *Toxicokinetic Models of Dermal Exposure to Jet Fuel*, Department of Environmental Sciences and Engineering, 2006.
3. Fent, Kenneth W.: *Quantitative Monitoring and Statistical Modeling of Dermal and Inhalation Exposure to Monomeric and Polymeric 1,6-Hexamethylene Diisocyanate during Automotive Spray Painting*, Department of Environmental Sciences and Engineering, 2008.
4. Gaines, Linda G.T.: *1,6-Hexamethylene Diamine (HDA) as a Urinary Biomarker for Dermal and Inhalation Exposure to 1,6-Hexamethylene Diisocyanate (HDI) in Automotive Spray-Painters*, Department of Environmental Sciences and Engineering, 2010.
5. Flack, Sheila L.: *Biological Monitoring of Occupational Exposure to Monomeric 1,6-Hexamethylene Diisocyanate*, Department of Environmental Sciences and Engineering, 2010.
6. Kang, Juei-Chuan C.: *Keratin Adducts as Biomarkers for Dermal Exposure to Jet Fuel JP-8 in the U.S. Air Force Fuel Cell Maintenance Personnel*. Department of Environmental Sciences and Engineering, 2010.
7. Jiang, Rong: *Single Nucleotide Polymorphisms (SNPs) in Occupational Exposure Assessment*. Department of Environmental Sciences and Engineering, 2010.
8. Thomasen, Jennifer: *Investigating the Performance of Exposure Assessment Techniques Used to Monitor Air and Dermal Exposures to Monomeric and Polymeric 1,6-Hexamethylene Diisocyanate*, Department of Environmental Sciences and Engineering, 2011.
9. Robbins, Zachary G.: *Biomarkers of Oligomeric 1,6-Hexamethylene Diisocyanate Exposure in the Vehicle Refinishing Industry*, Department of Environmental Sciences and Engineering, 2019.
10. Taylor, Laura: *Bioinformatic Assessment of Molecular Signatures Associated with Isocyanate Biomarkers of Exposure and Susceptibility to Isocyanate-induced Asthma*, Department of Environmental Sciences and Engineering, 2020.

Master's Theses and Technical Reports Supervised:

1. Gwin, Kristin K.: *Contributing Factors to Occupational Exposure to Benzene in Automobile Repair Garages*, MS, Department of Environmental Sciences and Engineering, 1999.
2. McCurdy, Allison L.: *Exposure of Working Women and Homemakers to 60-Hz Magnetic Fields*, MS, Department of Environmental Sciences and Engineering, 1999.
3. Kwok, Richard: *PM<sub>2.5</sub> and Postural Changes to Blood Pressure in the Elderly: Results from the U.S. EPA Particulate Matter Study, Baltimore 1998*, MS, Department of Epidemiology, 1999.
4. Carter, William: *United States Coast Guard Marine Safety Hazard Identification and Emergency Escape Breathing Apparatus Replacement*, MSPH, Department of Environmental Sciences and Engineering, 2000.
5. Archer, John: *Exposure to Respirable Crystalline Silica in Eastern North Carolina Farm Workers*, MS, Department of Environmental Sciences and Engineering, 2000.

6. Mattorano, Dino: *Estimating Dermal Exposure to Jet Fuel (Naphthalene) Using an Adhesive Tape-Stripping Technique*, MS, Department of Environmental Sciences and Engineering, 2000.
7. Trent, Chris: *Development of a Tape-Stripping Method to Assess Dermal Exposure to 1,6-Hexamethylene Diisocyanate*, MS, Department of Environmental Sciences and Engineering, 2003.
8. Jones, Karen: *Field Testing a Global Positioning System (GPS) Linked with a Direct Reading Air Sampling Instrument in an Exposure Assessment*, MSPH, Department of Environmental Sciences and Engineering, 2004.
9. Winkler, Thomas: *The Association Between the Number of Hispanic Migrant Farm Workers and the Agricultural Injury and Illness Incidence Rate in North Carolina*, MSPH, Department of Environmental Sciences and Engineering, 2004.
10. Fox, Donii: *Production and Purification of Polyclonal Antibodies to Cysteinyl Keratin-1 and Keratin-10 Protein Adducts of Benzene oxide and of Naphthalene-1,2-Oxide for Quantification of Benzene and Naphthalene in the Skin*, MSPH, Department of Environmental Sciences and Engineering, 2004.
11. Imler, Andrew: *Occupational Exposures (Metals, Solvents, and Pesticides) and Development of ANCA-Associated Small-Vessel Vasculitis (ANCA-SVV) with Glomerular Involvement: A Case-Control Study*, MSPH, Department of Environmental Sciences and Engineering, 2005.
12. Fent, Kenneth: *Development of a Tape-Strip Method to Assess Dermal Exposure to Hexamethylene Diisocyanate*, MS, Department of Environmental Sciences and Engineering, 2005.
13. Flack, Sheila: *Dermal and Inhalation Exposure to Propiconazole among Farm Workers in North Carolina*, MSPH, Department of Environmental Sciences and Engineering, 2006.
14. Hamra, Ghassan: *Dose Reconstruction for an Occupational Cohort at the Savannah River Nuclear Facility: evaluation of a Hybrid Method*, MSPH, Department of Environmental Sciences and Engineering, 2007.
15. Thomasen, Jennifer: *Laboratory and Field Comparisons of Air Sampling Methods for 1,6-Hexamethylene Diisocyanate*, MSPH, Department of Environmental Sciences and Engineering, 2007.
16. Anderson, Daniel: *Application of a Lung Deposition Model to Fiber Data from Three North Carolina Asbestos Textile Plants*, MSPH, Department of Environmental Sciences and Engineering, 2008.
17. Robbins, Zachary: *Determination of Aliphatic Amines in Urine as Biomarkers of Exposure to 1,6-Hexamethylene Diisocyanate and Isocyanurate*, MS, Department of Environmental Sciences and Engineering, 2011.
18. Salsbury, Mark: *Evaluation of Dermal Exposure to Acetamiprid in Backpack Sprayers Using Tape-Strip Technique*, MSPH, Department of Environmental Sciences and Engineering, 2011.
19. Watson, Scott: *Evaluation of a Human 3-Dimensional Skin Tissue Reconstruct as a Model to Screen for Xenobiotic Toxicity*, MSPH, Department of Environmental Sciences and Engineering, 2011.
20. Holt, Kennedy: *Validation of a Xenobiotic Vapor Generation and Exposure Chamber System for Quantification of Exposure Effect in 3-Dimensional Human Tissue Reconstructs*, MSPH, Department of Environmental Sciences and Engineering, 2014.

21. Kim, Wook: *The Effect of Work Environment on the Breathing-zone Concentrations of 1,6-Hexamethylen Diisocyanate Monomer and Its Oligomers in Automotive Refinishing Industry*, MPH, Department of Environmental Sciences and Engineering, 2015.
22. Fletcher, Mary Kathryn: *Spray Painters' Skin Exposure to 1,6-Hexamethylene Diisocyanate Monomer and its Oligomers*, MSPH, Department of Environmental Sciences and Engineering, 2015.
23. Sun, Kathie: *Influence of Genetic Variance on an Occupational Exposure Assessment Model of 1,6-Hexamethylene Diisocyanate*, MSPH, Department of Environmental Sciences and Engineering, 2016.
24. Frolking, Zoe: *Personal Exposure to Polycyclic Aromatic Hydrocarbons during Cooking in Rwandan Households*, MSPH, Department of Environmental Sciences and Engineering, 2016.
25. Taylor, Laura: *Influence of Genetic Variance on Occupational Exposure to 1,6-Hexamethylene Diisocyanate Isocyanurate*, MS, UNC-CH Curriculum of Toxicology, 2017.
26. Phillips, Kaitlyn: *Viability of Cultured Primary Human Skin Cells Treated with HDI Monomer and HDI Isocyanurate*, MSPH, Department of Environmental Sciences and Engineering, 2017.
27. Styles, Jennifer: *Demographic Predictors and Biomarkers of Vascular Injury Associated with Human Cytomegalovirus Infection*, MSPH, Department of Environmental Sciences and Engineering, 2017.
28. Fulton, Blake: *Exposure to Polycyclic Aromatic Hydrocarbons in Peri-urban Rwandan Homes*, MSPH, Department of Environmental Sciences and Engineering, 2018.
29. Martin, Brandi: *Acute Eucalyptus Smoke Inhalation Sensitizes Rats to the Postprandial Effects of a High Carbohydrate Meal*, MSPH, Department of Environmental Sciences and Engineering, 2019.
30. Price, Emily: *A Detailed Exposure Assessment of Automotive Spray Painters to 1,6-Hexamethylene Diisocyanate Monomer and Its Oligomers*, MSPH, Department of Environmental Sciences and Engineering, 2020.
31. McGoun, Casey: *Polycyclic Aromatic Hydrocarbon Exposure: Rwandan Households*, MSPH, Department of Environmental Sciences and Engineering, 2020.
32. Kirby, Alicia: *Model Predictions of MeS Skin Exposure Informed by the Variability of Metabolite Urinary Excretion in Controlled Human Exposures*, MS, Department of Environmental Sciences and Engineering, 2024.
33. Bocklage, Clare: *Development of a Skin dosing Method using Methyl Salicylate*, MS, Department of Environmental Sciences and Engineering, 2024.

MPH Students Supervised:

1. Hu, Shih-wen; Department of Environmental Sciences and Engineering, 2021.
2. Thomson, Hope; Department of Environmental Sciences and Engineering, 2021.
3. Bailey, Kelly; Department of Environmental Sciences and Engineering, 2022.
4. Sitzmann, Jennifer; Department of Environmental Sciences and Engineering, 2022.
5. Sprouse, Lauren; Department of Environmental Sciences and Engineering, 2022.
6. Shapiro, Samantha; Department of Environmental Sciences and Engineering, 2023.

Undergraduates and Undergraduate Honor's Theses Supervised:

1. Kwok, Richard: *Risk of Lung and Nasal Cancer in Nickel Refinery Workers*, BSPH Honors Thesis, Department of Environmental Sciences and Engineering, 1997.
2. Rorke, Catrina: *Analysis of Naphthalene Metabolism in Dermal and Hepatic Systems*, BSPH Honors Thesis, Department of Environmental Sciences and Engineering, 2006.

3. Hodgens, Charles: *Evaluation of a Sample Concentration Procedure in the Analysis of Dermal Exposure to 1,6-Hexamethylene Diisocyanate and its Oligomers*, BSPH Honors Thesis, Department of Environmental Sciences and Engineering, 2012.
4. Donoghue, Lauren: *Consequences of Persistent Mitochondrial DNA Damage Under Conditions of Increased Oxidative Stress*, BSPH Honors Thesis, Department of Environmental Sciences and Engineering, 2014.
5. Fulton, Blake, BSPH, Department of Environmental Sciences and Engineering, 2017.

UNC-CH Summer Pre-Graduate Research Experience Advisor:

1. Vega, Roxana; Buffalo State College, Buffalo, NY: *Development of an analytical Method for the Quantification of 1,6-Hexamethylnene Diisocyanate (HDI) Using Liquid Chromatography and Mass Spectrometry*, Department of Environmental Sciences and Engineering, 2004.

Post-Doctoral Advisees:

1. Kim, David, PhD, Toxicokinetic Models of Dermal Exposure to Jet Fuel, June – August, 2006.
2. Chao, Yi-Chun E., PhD, Relative Importance of Predictors in Exposure Assessment Models, August 2005 – December 2006.
3. Flack, Sheila L., PhD, Biological Monitoring of Diisocyanate Exposures, May 2010 – August 2011.
4. Thomasen, Jennifer, PhD, Dermal Exposure Monitoring Techniques for Diisocyanates, May 2011 – December 2011.
5. Robbins, Zachary G., PhD, Exposure Assessment, January 2019 – August 2020.

Doctoral Committee Member:

1. Charles, Luenda E.: *Occupational Exposures and Prostate and Kidney Cancer Mortality in Electric Utility Workers*, PhD, Department of Epidemiology, 2000.
2. Parks, Christine: *Occupational Exposure to Crystalline Silica and the Development of Systemic Lupus Erythematosus (SLE): A Case-Control Study in the Southeastern United States*, PhD, Department of Epidemiology, 2001.
3. Tan, Yu-Mei C.: *The Impact of Transfer Efficiency on Worker Exposure During Spray Painting*, PhD, Department of Environmental Sciences and Engineering, 2001.
4. Kirrane, Ellen: *Organic solvent exposure and neuropsychological function among fishers in North Carolina*, PhD, Department of Epidemiology, 2002.
5. Kato, Mina: *Charcoal Workers in Bahia, Brazil: Occupational Hazards and Urinary Biomarkers of Exposure to Wood Smoke*, PhD, Department of Epidemiology, 2003.
6. Pleil, Joachim: *Assessing Carcinogenic Polycyclic Aromatic Hydrocarbon (OAH) Levels in the Aftermath of the New York World Trade Center Disaster*, PhD, Department of Environmental Sciences and Engineering, 2004.
7. Anthony, L. Renee: *Investigation of Particle Inhalability*, PhD, Department of Environmental Sciences and Engineering, 2005
8. Salo, Päivi: *Investigation of Environmental Risk Factors for Childhood Asthma and Asthma-Related Symptoms*, PhD, Department of Environmental Sciences and Engineering, 2005.
9. Staskal, Daniele: *Linking the Exposure/Dose Relationship for 2,2',4,4'-Tetrabromodiphenyl Ether (BDE 47) in Mice: Potential Implications for Human Health Risk Assessment*, PhD, Curriculum of Toxicology, 2005.
10. Myers, Sharon L.: *Pesticide Use and Uterine Leiomyoma Prevalence among Farm Women: an Analysis of The Agricultural Health Study with Assessment Of Outcome Misclassification*, PhD, Department of Epidemiology, 2010.

11. Szabo, David T.: *Toxicokinetics and Effects of 1,2,5,6,9,10-Hexabromocyclododecane (HBCD) Stereoisomers in Mice*. PhD., Department of Environmental Sciences and Engineering & UNC-CH Curriculum of Toxicology, 2011.
12. Bordeerat, Narisa: *Quantification of Epoxide Metabolite Specific N-Terminal Globin Adducts: a Biomarker of Internal Dosimetry of 1,3-Butadiene Exposure and Metabolism*, PhD, Department of Environmental Science and Engineering, 2011.
13. Low, Yen Sia: *Development, Interpretation, Application and Validation of Toxicity Prediction Models using Multidisciplinary Data Integration and Novel Computational Approaches*, PhD, Department of Environmental Science and Engineering, 2013.
14. Rinsky, Jessica: *The Role of Occupational Exposure to Animal Production in Chronic Obstructive Pulmonary Disease Among Farmers in Iowa and North Carolina*, PhD, Department of Epidemiology, 2015.
15. Kelly-Reif, Kaitlin: *Cancer Incidence and Mortality Among Uranium Miners in the Příbram Region of the Czech Republic*, PhD, Department of Epidemiology, 2018.
16. Smeester, Lisa: *A Critical Role for Imprinted Genes in the Placenta in the Developmental Origins of Health and Disease*, PhD, Department of Environmental Science and Engineering, 2019.
17. Winters, Brett: *Utilization of Airborne Molecules for In Vivo and In Vitro Toxicity Testing*, PhD, Curriculum of Toxicology, 2019.
18. Eftekhari, Azin: *Advancing Prediction of Transdermal Uptake of SVOCs from Clothing and Lotion*, PhD, Department of Environmental Sciences and Engineering, 2020.
19. Meakin, Cassandra: *Inorganic Arsenic as an Endocrine Disruptor in the Placenta: implications for the Glucocorticoid Receptor Signaling Pathway*, PhD, Department of Environmental Sciences and Engineering, 2020.
20. Wiesner, Corinne: *Find, Inform, and Test (FIT): a spatial modeling framework to estimate contributions of spatially distributed sources to microbial contaminants in the environment*, PhD, Department of Environmental Sciences and Engineering, 2021.

Master's Committee Member:

1. Dodson, Ashley S.: *Chamber Validation of a Localized Open-Path FTIR Spectrometer*, MSPH, Department of Environmental Sciences and Engineering, 1999.
2. Hauf, Lisa M.: *The Development of a Method Suitable for the Analysis of Naphthalene as an Indicator of Jet Fuel Exposure*, MS, Department of Environmental Sciences and Engineering, 1999.
3. Smith, Andrew: *Field Evaluation of Engineering Controls for Asphalt Paving Equipment*, MS, Department of Environmental Sciences and Engineering, 2002.
4. Davis, Jefferson: *Characterizing Particles Deposited onto a Surface Using the Atomic Force Microscope*, MSPH, Department of Environmental Sciences and Engineering, 2002.
5. Rhoney, Scott: *Lymphocyte Proliferation In Vitro Alteration by Benzo[a]Pyrene, Diesel Exhaust Extract and Sodium Arsenite*, MSPH, Department of Environmental Sciences and Engineering, 2004.
6. Pickett, Kimberly: *Particle Investigation in the Near-wake of an Elliptical Cylinder to Predict Exposure*, MS, Department of Environmental Sciences and Engineering, 2005.
1. Yue, Sophie Z.: *Relative Importance Indices for Predictors in Multiple Linear Regression Analysis: A Review and Critique*, MS, Department of Biostatistics, 2006.
2. Buchanan, Tausha: *Penetration of Fine Particles Through Simulated Building Cracks*, MS, Department of Environmental Sciences and Engineering, 2007.

3. Smith, Nikia: *Environmental Epigenomics: Altered DNA Methylation Patterns in Humans Exposed to Inorganic Arsenic*, MS, Department of Environmental Sciences and Engineering, 2010.
4. Ankem, Gayatri: *Using a Systems Biology Approach to Inform an Understanding of Gene-chemical Relationships Associated with ADHD*, MPH, Department of Environmental Sciences and Engineering, 2013.
5. Yosim, Andrew Ethan: *Estimating Relationships Between Arsenic Exposure Through Rice Consumption and Disease*, MS, Department of Environmental Sciences and Engineering, 2015.
6. Tulenko, Samantha: *Using the Comparative Toxicogenomics Database to Understand the Impact of High-risk Toxicants on Biological Pathways*, MSPH, Department of Environmental Sciences and Engineering, 2015.
7. Oyarzabal, Esteban: *The Role of Astrocytes in Response to Stimulation with the Microbial Endotoxin Lipopolysaccharide*, MS, Department of Environmental Sciences and Engineering, 2016.
8. Smeester, Lisa: *Chronic Early Childhood Exposure to Inorganic Arsenic is Associated with a TNF-Mediated Proteomic Signaling Response*, MS, Department of Environmental Sciences and Engineering, 2016.
9. Meakin, Cassandra: *Inorganic Arsenic as an Endocrine Disruptor: Modulation of the Glucocorticoid Receptor Pathway and Implications for Placental Physiology*, MSPH, Department of Environmental Sciences and Engineering, 2018.
10. Moravec, Ryan: *In-vitro Efficacy Test of Anti-pollution Skin Lotion Formulations*, MS, Department of Environmental Sciences and Engineering, 2022.

Reviewer and Committee Member for International Student Dissertations:

1. Mäkinen, Milja: *Dermal Exposure Assessment of Chemicals*, Doctoral Thesis, The University of Kuopio, Finland, 2003.
2. Lampa, Erik: *Variability of Underground Radon Exposure and Optimization of Measurement Strategies*, Licentiate Thesis, Occupational Medicine, Department of Public Health and Clinical Medicine, The University of Umeå, Sweden, 2006.

Mentor for International Students:

1. Pasanen, Tiina, MS student, Kuopio University, Kuopio, Finland, ASLA-Fulbright Grant for Graduate Study at ESE, SPH, UNC-CH, 2001-2002.
2. Surakka, Jouni was trained in dermal exposure monitoring and development of dermal monitoring methods in my laboratory at UNC-CH. ASLA-Fulbright Grant for Graduate Study 1997-1998. Doctoral dissertation: “*Dermal exposure to UV-radiation and UV-curable acrylate coatings in the wood working industry*”, Luleå University of Technology, Luleå, Sweden, 2000.

**Contracts and Grants**

Currently Funded:

1. Utilizing Vapor-Protective PPE to Reduce Exposures to Fireground Contaminants (*Principal Investigator* UNC subcontract; PI Ormond). Department of Homeland Security (DHS) 09/20/2023 – 09/19/2026.
2. Assessment of Absorption and Distribution of Methyl Salicylate Following Skin Exposure in Human Subjects (*Principal Investigator*). Joint Research and Development, Inc. (JRAD), 11/03/2022 – 6/30/2024.

3. North Carolina Occupational Safety and Health Education and Research Center (*Center Director, Director of the Occupational Exposure Science and Industrial Hygiene Program, Director of the Targeted Research Training Program, and Director of the Pilot Research Projects Program*). CDC/NIOSH, T42-OH008673, 07/01/2022 – 06/30/2027.
4. The Carolina Center for Total Worker Health and Well-being (*Co-Director of the Pilot Research Projects and Emerging Issues Programs, PI Linnan*) CDC/NIOSH, UO H012303A, 09/01/2021 – 08/31/2026.

Past Contracts and Grants:

1. North Carolina Occupational Safety and Health Education and Research Center (*Center Director, Director of the Occupational Exposure Science and Industrial Hygiene Program, Director of the Targeted Research Training Program, and Director of the Pilot Research Projects Program*). CDC/NIOSH, T42-OH008673, 07/01/2017 – 06/30/2022.
2. Population-based Genetic Model for Diisocyanate-induced Asthma (*Principal Investigator*). CDC/NIOSH, R21 OH011562, 09/30/2018 – 08/31/2021.
3. Expert Technical Advisor to provide safety and health expertise and technical assistance to CDC/NIOSH during the COVID-19 pandemic (*Principal Investigator*). CDC/NIOSH Intergovernmental Personal Act (IPA), 20IPA2014114, 08/01/2020 – 07/31/2021.
4. Technical Assistance Using a *Total Worker Health*<sup>®</sup> (TWH) Approach and Evidence-based Strategies to Ensure a Safe Return to Work in North Carolina (*Multi-Principal Investigator, MPI Leena Nylander-French & Laura Linnan*). North Carolina Policy Collaboratory, 06/01/2020 – 12/31/2020.
5. The Health and Poverty Effects of a Large-scale Cookstove Initiative in Rwanda (*Co-Investigator; PI Sudhanshu Handa*), NIH, R01 ES023861, 08/01/2014 – 07/31/2020.
6. Demonstrating the impact of clothing on transdermal uptake of endocrine disruptors found in home environments (*Co-Investigator; PI Glenn Morrison*). Center for Environmental Health and Susceptibility (CEHS) Pilot Projects Program 2019-2020, 04/01/2019 – 03/31/2020.
7. Quantification of Trisaminohexyl Isocyanurate (TAHI) in Urine of Aircraft Refinishing Spray-Painters (*Principal Investigator; Zachary Robbins, OES trainee*). NC Occupational Safety and Health Education and Research Center Pilot Projects Program 2018, 01/01/2019 – 12/30/2019.
8. Effective Communication on Tobacco Product Risk and FDA Authority (*Co-investigator, PI Kurt Ribisl*), NIH National Cancer Institute, P50-CA180907, 09/19/2013 – 08/31/2018.
9. North Carolina Occupational Safety and Health Education and Research Center: Training in Occupational Exposure Science (OES Program Director; Center Director Bonnie Rogers). CDC/NIOSH, T42-OH008673, 07/01/2012 – 06/30/2017.
10. Quantifying Determinants of Spray Painters' Isocyanurate Exposure (*Principal Investigator*), CDC/NIOSH, R01-OH010476, 09/01/2014 – 08/31/2017.
11. The Effect of Filaggrin Mutations on Dermal Penetration of Diisocyanates (*Principal Investigator*), CDC/NIOSH, R21-OH010550, 09/01/2014 – 08/31/2017.
12. Optimizing the Skin Microclimate to Reduce Human Exposure under Realistic Work Conditions (*Principal Investigator, co-PI DenHartog*). NC Occupational Safety and Health Education and Research Center Pilot Projects Program 2017, 01/01/2017 – 12/30/2017.
13. Technical Advisor and Reviewer for Immediately Dangerous to Life or Health (IDLH) Value Profiles (*Principal Investigator*). CDC/NIOSH Intergovernmental Personnel Act (IPA), 13IPA1313348, 08/05/2013 – 08/04/2016.
14. Determination of PAH Species and Relative Proportions in the Smoke of Cookstoves Used in Rwanda (*Principal Investigator; Zoe Frolking OES trainee*). NC Occupational Safety and



- Health Education and Research Center Pilot Projects Program 2014-2015, 12/01/2014 – 11/30/2015.
15. Influence of Genetic Markers on Exposure Assessment Models (*Principal Investigator*), CDC/NIOSH, R21-OH010203, 07/01/2012 – 06/30/2015.
  16. NSF Nanosystems Engineering Research Center for Advanced Self-Powered Systems of Integrated Sensors and Technologies (ASSIST) (*Co-investigator* in the UNC subcontract; PI Veena Misra, North Carolina State University). NSF-1160483, 09/01/12 – 8/31/2016.
  17. A Novel Air-monitoring Device for Rapid Screening of Air Toxics. (*Principal Investigator*; Kennedy Holt OES trainee). NC Occupational Safety and Health Education and Research Center Pilot Projects Program 2012-2013, 12/01/2012 – 11/30/2013.
  18. Influence of Epigenetic Alterations on Biomarker Levels (*Principal Investigator*, co-PI Fry). NC Occupational Safety and Health Education and Research Center Pilot Projects Program 2011-2012, 12/01/2011 – 11/30/2012.
  19. Evaluation of Protective Clothing to Prevent Diisocyanate Exposures in the Collision Repair Industry (*Principal Investigator* of the UNC-CH subcontract; PI Michael G. Yost), CDC/NIOSH, RO1-OH009364, 09/01/2009 – 02/28/2013.
  20. 3D Human Skin Model to Reduce the Use of Animals in Toxicity Testing (*Principal Investigator* of the UNC-CH subcontract; PI Meenhard Herlyn), NIEHS, 1RC1ES018210-01, 09/21/2009 – 07/31/2012.
  21. North Carolina Occupational Safety and Health Education and Research Center: Training in Industrial Hygiene (*IH Program Director*; Center Director Bonnie Rogers). CDC/NIOSH, T42-OH008673, 07/01/2006 – 06/30/2012.
  22. Quantification of AcHDA in Urine of Automotive Spray-Painters (*Principal Investigator*; Sheila Flack, OES trainee). NC Occupational Safety and Health Education and Research Center Pilot Projects Program 2008-2009, 12/01/2009 – 11/30/2010.
  23. Environmental Exposure and Effect of Hazardous Chemicals – Project 4: Comparative Toxicogenomics and Individual Differences in the Human Response to Dermal Exposure to Polycyclic Aromatic Hydrocarbons (*Principal Investigator* for Project 4; Center Director James A. Swenberg), NIEHS, Superfund Basic Research Program, 5P42-ES005948, 04/01/2006 – 03/31/2011.
  24. National Strategy for Environment and Health United Arab Emirates (*Principal Investigator* for Occupational Health; PI Jacqueline MacDonald), United Arab Emirates, 01/31/2008 – 12/31/2010.
  25. Biomarkers and Individual Differences in Response to Diisocyanate Exposure (*Principal Investigator*). UNC-CH Bridge funding (Provost and Vice Chancellor for Research and Economic Development, School of Public Health, and Department of Environmental Sciences and Engineering), 07/01/2007 – 06/30/2010.
  26. UNC-CH Center for Environmental Health & Susceptibility (*Exposure-Biomarker Research Core Director*; PI James A. Swenberg), NIEHS, 5P30 ES10126, 04/01/2005 – 03/31/2010.
  27. Determination of penetration patterns of HDI monomer and its oligomers in human skin (*Principal Investigator*; Jennifer Thomasen, OES trainee). NC Occupational Safety and Health Education and Research Center Pilot Projects Program 2008-2009, 12/01/2008 – 11/30/2009.
  28. Dermal Exposure and Skin Protein Adduct of MDI (Methylene Diphenyl Diisocyanate); (Exponering för Isocyanaten MDI på Huden och Dess Proteinaddukt i Huden) (*Co-Investigator*; PI Ingrid Liljelind), Swedish Council for Working Life and Social Research, 01/01/2006-12/31/2008.

29. Inhalation and Dermal exposure to Colophony (Inhalations- och Hudexponering för Terpensyror, Kolofonium), Grant No. 2003-0084 (*Co-Investigator*; PI Kåre Eriksson), Swedish Council for Working Life and Social Research, 01/01/2004-12/31/2008.
30. Biomarkers of Exposure to Hexamethylene Diisocyanate (*Principal Investigator*), American Chemistry Council, RSK0015-01, 04/24/2003 – 04/23/2008.
31. Dermal Exposure to 1,6-Hexamethylene Diisocyanate (*Principal Investigator*), CDC/NIOSH, R01-OH007598, 08/01/2003 – 07/31/2007.
32. Research in Environmental Health, Environmental Biostatistics Training Grant (*Investigator*; PI Larry Kupper). NIEHS, T32-ES07018, 07/01/2002 – 06/30/2007.
33. North Carolina Occupational Safety and Health Education and Research Center: Training in Industrial Hygiene (*IH Program Director*; Center Director Bonnie Rogers), CDC/NIOSH, T42/CCT422952, 07/01/2003 – 06/30/2006.
34. Assessment of Triazole Exposure Among Farm Workers in North Carolina (*Co-Principal Investigator*, PI Ipek Goktepe), North Carolina Agromedicine Institute, 07/01/2004 – 06/30/2006.
35. Environmental Exposure and Effect of Hazardous Chemicals – Project 8: Quantification and Assessment of Dermal Exposure to Benzene and Naphthalene Using a Noninvasive Sampling of Skin (*Principal Investigator* for Project 8; Center Director James A. Swenberg). NIEHS, Superfund Basic Research Program, P42 ES005948, 04/01/2000 – 03/31/2006.
36. ANCA Glomerulonephritis: From Molecules to Man – Project 5: Environmental Risk Factors for ANCA Glomerulonephritis, 1P01 DK58335-01 (*Investigator*; Program Director Ronald J. Falk), NIH, 09/01/2000 – 08/31/2005.
37. Variability in Dermal Exposures (Variabilitet i Hudexponering) (*Investigator*; PI Ingrid Liljelind), Swedish Council for Work Life Research, 02/01/2002-01/31/2004.
38. Dermal Exposure to 1,6-Hexamethylene Diisocyanate in Spray Painting (*Principal Investigator*), UNC-CH/NIEHS Center for Environmental Health and Susceptibility Pilot Projects Program 2001-2002, 07/01/2001 – 06/30/2002.
39. Organic Solvent Mixtures and Neuropsychological Outcomes, R03-OH07380-01 (*Co-investigator and Mentor*; PI Ellen Kirrane), CDC/NIOSH, 04/01/2001-03/31/2003.
40. Quantification of Dermal Exposure to Jet Fuel (*Principal Investigator*), UNC-CH NIOSH/ERC Pilot Research Training, 11/01/2000 – 06/30/2001.
41. Quantification of Dermal Exposure to Jet Fuel (*Principal Investigator*), U.S. Air Force through Texas Tech University, 01/01/2000 – 12/31/2000.
42. A Case Control Study of Risk Factors for Wilms Tumor, RO1 CA75385-01 (*Co-Investigator*; Principal Investigator Andrew F. Olshan), NIH/NCI, 10/01/1998 – 09/30/2003.
43. Exposure to Silica Dust During Farming Activities in North Carolina (*Principal Investigator*), CODA/NIEHS, 01/01/1999 – 31/12/1999.
44. Quantification of Skin Acrylate Adducts, K01-OH00174-01 (*Principal Investigator*). NIOSH/CDC, 10/01/1998 – 09/30/2001.
45. Ultraviolet Radiation Induction of Reactive Oxygen Species and Potentiation of Toxicity by Simultaneous or Sequential Exposure to Multifunctional Acrylates in Human Skin Cells in vitro (*Principal Investigator*), UNC-CH University Research Council, 11/13/1997 – 11/12/1998.
46. Biomarkers of Styrene Oxide, R01-CA69463-03 (*Co-Investigator*; PI Stephen M. Rappaport), NIH/NCI, 09/30/1995 - 08/31/2000.

47. Epidemiology Study of Electric Utility Workers Exposed to Electric and Magnetic Fields W04306-05 (RP 2964-27) (*Investigator*; PI David A. Savitz), Electric Power Research Institute, 07/1/1994 – 12/31/1999.
48. Environment and Breast Cancer Program, R20-CA66201 (*Co-Investigator*; PI David A. Savitz), NCI, 09/30/1994 – 09/29/1998.
49. Skin Deposition of Components in UV Radiation Curable Acrylate Coatings During Work with the Surface Coating of Wood, Grant #95-0590 (*Principal Investigator*), Swedish Council for Work Life Research, 1995 – 1999.

### **Publications:**

#### Refereed Journal Articles: (\*Ph.D. student advisee; \*\*MS student advisee)

1. McAden, E.P.; Jardel, H.; Leff, M.; Staley, J.; Greenberg, R.; Linnan, L.; **Nylander-French, L.A.**: Assessing the impact of COVID-19 on small and medium sized businesses: The Carolina PROSPER worksite impact survey. *International Journal of Environmental Research and Public Health* (in preparation).
2. Hammel, S.C.; Eftekhari, A.; Eichler, C.M.A.; Liu, C-W.; **Nylander-French, L.A.**; Engel, L.S.; Lu, K. and Morrison, G.C.: Reducing transdermal uptake of semi-volatile plasticizers from indoor environments: a clothing intervention. *Environmental Science and Technology*, 29 Nov 2023. DOI: [10.1021/acs.est.3c06142](https://doi.org/10.1021/acs.est.3c06142). PMID: 38019971
3. Lowry, L.K.; Hopf, N.B.; Bader, M.; Blum, L.M.; Grassman, J.; Jones, K.; Kaefferlein, H.U.; **Nylander-French, L.A.**; Spies, G.J.; Talaska, G. and Claude Viau: Letter to the Editor: Negative feasibility for 1-Bromopropane and call for additional data. *Journal of Occupational and Environmental Hygiene*, 14 Sep 2023. DOI: [10.1080/15459624.2023.2245002](https://doi.org/10.1080/15459624.2023.2245002).
4. McAden, E.P.; Leff, M.; Staley, J.; Barker, H.; Greenberg, R.; **Nylander-French, L.A.** and Linnan, L.: Feasibility of implementing a *Total Worker Health*<sup>®</sup> intervention during the COVID-19 pandemic in small- and medium-sized businesses: Results from the Carolina PROSPER study. *Journal of Occupational and Environmental Medicine*, 3 Aug 2023. DOI: [10.1097/JOM.0000000000002935](https://doi.org/10.1097/JOM.0000000000002935).
5. Gaines L and **Nylander-French LA**. Occupational exposure to PFAS: Research and protection needed. *American Journal of Industrial Medicine*, 66(5):424-426, 2023. DOI: [10.1002/ajim.23467](https://doi.org/10.1002/ajim.23467). PMID: 36748847
6. Paris-Davila, T.; Lucas, K.; Gaines, L.G.T. and **Nylander-French, L.A.**: Occupational Exposures to Airborne Per- and Polyfluoroalkyl Substances (PFAS) - A Review. *American Journal of Industrial Medicine*, 66(5):393-410, 2023 DOI: [10.1002/ajim.23461](https://doi.org/10.1002/ajim.23461). PMID: 36719301
7. Lucas, K.; Gaines, L.G.T.; Paris-Davila, T. and **Nylander-French, L.A.**: Occupational exposure and serum levels of per- and polyfluoroalkyl substances (PFAS): A review. *American Journal of Industrial Medicine*, 66(5):379-392, 2023. DOI: [10.1002/ajim.23454](https://doi.org/10.1002/ajim.23454). PMID: 36573587
8. Taylor, L.W.\*; McAden, E.J.\*\*; Poole, C. and **Nylander-French, L.A.**: The genetics of occupational asthma development among workers exposed to diisocyanates: a systematic literature review with meta-analysis. *Frontiers in Genetics – Applied Genetic Epidemiology* 13:944197, 6 Oct 2022. DOI: [10.3389/fgene.2022.944197](https://doi.org/10.3389/fgene.2022.944197). PMID: 36276967 PMCID: [PMC9582143](https://pubmed.ncbi.nlm.nih.gov/PMC9582143/).
9. Kelly-Reif, K.; Sandler, D.; Shore, D.; Schubauer-Berigan, M.K.; Troester, M.A.; **Nylander-French, L.A.** and Richardson, D.: Lung and extrathoracic cancer incidence among underground uranium miners exposed to radon progeny in the Příbram region of the Czech

- Republic: a case-cohort study. *Occupational and Environmental Medicine* 9(2):102-108, 2022. DOI: [10.1136/oemed-2021-107392](https://doi.org/10.1136/oemed-2021-107392). PMID: 34417337, PMCID: [PMC8760136](https://pubmed.ncbi.nlm.nih.gov/PMC8760136/).
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Book Chapters:

1. **Nylander-French, L.A.:** Wood Dust. *In: Patty's Toxicology*, 7<sup>th</sup> Ed. D.J. Paustencach, W.H. Farland, J. Kaunig, L. Levy, H. Greim (Eds.), John Wiley & Sons, Inc., New York. Chapter, 52 p, December 2023. DOI: 10.1002/0471125474.tox017.pub3. ISBN: 978-1-119-63416-4.
2. **Nylander-French, L.A.;** Beauchamp, J.D. and Pleil J.D.: Volatile Emissions from Skin. *In: Breathborne Biomarkers and the Human Volatilome*, 2<sup>nd</sup> Ed. J. Beauchamp, C. Davis, and J. Pleil (Eds.), Elsevier, Amsterdam, Netherlands. Chapter 25, pp. 409-423, 2020. DOI: <https://doi.org/10.1016/C2018-0-04980-4>. Paperback ISBN: 978-0-12-819967-1, eBook ISBN: 9780128223970.
3. Flack, S.\* and **Nylander-French, L.A.:** Occupational Chemicals: Metabolism, Toxicity and Mode of Action. *In: Toxicology and Human Environments*, Vol. 112:1<sup>st</sup> ed., E. Hodgson (Ed.), Elsevier, Oxford, UK (2012); pp. 163-208. ISBN: 978-0-1241-5813-9.
4. **Nylander-French, L.A.:** Effects of Dermal Exposure to Jet Fuel. *In: Toxicology of the Skin: Target Organ Series*. N. Monteiro-Riviere (Ed.), Informa Healthcare, New York, NY (2010); pp. 386-395. ISBN: 9781420049173.
5. Kim, D.\* and **Nylander-French, L.A.:** Physiologically-Based Toxicokinetic Models and Their Application in Human Exposure and Internal Dose Assessment. *In: Molecular, Clinical and Environmental Toxicology, Volume 1: Molecular Toxicology, Series: Experientia Supplementum Vol. 99*, A. Luch (Ed.), Life Sciences, Birkhäuser, Basel (2009); pp. 37-55. ISBN: 978-3-7643-8335-0
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#### Invited Articles:

**Nylander-French, L.A.:** Occupational hazards from the use of ultraviolet radiation curable acrylates. *Croner Occupational Safety and Health Magazine* 34(June/July):18-24, 2002.

#### Proceedings:

1. **Nylander-French, L.A.** Dermal Exposure Assessment, Biomarkers, and Modeling Approaches. Australian Institute of Occupational Hygienists, AIOH Conference Proceedings, December 2012.
2. **Nylander-French, L.A.;** Lacks, G.D.; Mattorano, D.A.\*\*: Quantification of naphthalene dermal exposure using non-invasive tape stripping of the stratum corneum, extraction, and normalization against keratin. *Arbete och Hälsa* 10:23-24, 2001.
3. Surakka, J.\*, Fischer, T., Johnsson, S. and **Nylander-French, L. A.:** Utveckling av metod för mätning av hudexponering för UV-härdande akrylatlacker inom träindustrin. (Translation: Development of a method for measurement of dermal exposure to ultraviolet radiation curable acrylate resins in wood surface coating industry). NAM 98, 46 Nordiska Arbetsmiljömötet, 26-28 August 1998, Reykjavik, Iceland. Vinnueftirlit ríkisins, p. 25-26. ISBN-9979-863-08-0.
4. **Nylander-French, L.A.;** Fischer, T.; Holmström, M. and Rosén, G.: Identification of risk to workers in the ultraviolet radiation curing of wood surface coatings. Second International Occupational Hygiene Association Conference, 16-18 November 1994, Hong Kong.
5. Niemelä, R.; Säämänen, A.; Karvinen, P.; Pfäffli, P.; **Nylander, L.** and Kalliokoski, P.: Dilution ventilation to control styrene exposure in reinforced plastics industry. *In: Ventilation*

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1. **Nylander-French**, L.A.; Folley, T.; Moore, M. and Shih, R.: Occupational Exposures. In: National Strategy and Action Plan for Environmental Health, United Arab Emirates 2010. Environment Agency – Abu Dhabi, UAE, June 2010. pp. 34 – 47.
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3. Pfäffli, P.; **Nylander**, L.; Pekari, K.; Norppa, H.; Kalliokoski, P. and Sorsa, M.: Altistuminen kemikaaleille polyesterilujitemuovityössä (Translation: Exposure to chemicals in reinforced plastics manufacturing). Final report No. 88071. Institute of Occupational Health, Helsinki. October 1990. p. 64 + appendix.
4. **Nylander**, L.; Janhunen, H.; Laitinen, H. and Heikkilä, P.: Jauhemaisten paperikemikaalien pölyävyytestaus ja pölyävyyssuokituksen kehittäminen (Translation: Dustiness testing and classification of powdered paper chemicals). Final Report. Lappeenranta Regional Institute of Occupational Health, Finland, June 1987, p.48 + appendix.

Theses:

- Nylander-French**, L.A.: *Identification of Risk to Workers in the Ultraviolet Radiation Curing Wood Surface Coating Industry. An Occupational Hygiene and Experimental Animal Study.* The Royal Institute of Technology, Stockholm and National Institute of Occupational Health, Solna, Sweden. Doctoral Thesis, 1994. ISBN 91-7170-871-5.
- Nylander**, L.A.: *Jauhemaisten Paperikemikaalien Pölyävyytestaus ja Pölyävyyssuokituksen kehittäminen* (Translation: *Dustiness Testing and Classification of Powdered Paper Chemicals*). University of Kuopio, Finland. Master of Science Thesis, 1987.

Abstracts and Presentations: (\*Ph.D. student advisee; \*\*MS student advisee)

1. **Nylander-French**, L.A.: Why and How to use BEI Notations? International Occupational Hygiene Association Conference, Dublin, Ireland, June 9 – 13, 2024.
2. Bocklage, C.; Kirby, A.; Yao, Z.; Morrison, G.; **Nylander-French**, L.A.; Weed, R.A.; Enders, J.; Ormond, B.; Burgin, T.; Kaufman, J.: A Method to quantify skin absorption of methyl salicylate. SouthON and Southeast Regional Research Symposium (SERRS), March 25-27, 2024.
3. Kirby, A.; Bocklage, C.; Yao, Z.; Morrison, G.; **Nylander-French**, L.A.; Weed, R.A.; Enders, J.; Ormond, B.; Burgin, T.; Kaufman, J.: Model predictions of MeS skin exposure informed by the variability of metabolite urinary excretion in controlled human exposures. SouthON and Southeast Regional Research Symposium (SERRS), March 25-27, 2024.
4. McAden, E.P.; Leff, M.; Staley, J.; Barker, H.; Garzia, S.; Greenberg, R.; Jardel, H.; **Nylander-French**, L.A.; Linnan, L.: Implementing a Total Worker Health® approach to improve worker safety and health during the COVID-19 pandemic: The Carolina PROSPER study. 3<sup>rd</sup> International Symposium to Advance *Total Worker Health*®. October 11-14, 2022.

5. Martin, B.L.\*; **Nylander-French**, L.A., French, J.E. and Boyer, J.C.: Population-based genetic mouse model for diisocyanate-induced asthma. SouthON and Southeast Regional Research Symposium (SERRS), March 21-23, 2022.
6. Leff, M.; Jardel, H.; Staley, J.; McAden, E.P.; Barker, H.; Greenberg, R.; Linnan, L.; **Nylander-French**, L.A.: Assessing the impact of COVID-19 on small and medium sized businesses: The Carolina PROSPER Worksite Impact Survey. Ex4OSH 2021 Conference, December 9-11, 2021. (virtual presentation)
7. McAden, E.P.; Leff, M.; Staley, J.; Barker, H.; Garzia, S.; Greenberg, R.; Jardel, H.; **Nylander-French**, L.A.; Linnan, L.: Implementing a Total Worker Health<sup>®</sup> approach to improve worker safety and health during the COVID-19 pandemic: The Carolina PROSPER Study. Ex4OSH 2021 Conference, December 9-11, 2021. (virtual presentation)
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9. Jardel, H.; Leff, M.; Staley, J.; McAden, E.P.; Barker, H.; Greenberg, R.; Linnan, L.; **Nylander-French**, L.A.: Assessing the impact of COVID-19 on small and medium sized businesses: The Carolina PROSPER Worksite Impact Survey. American Public Health Association (APHA) Annual Meeting & Expo, October 24-27, 2021. (virtual presentation)
10. McAden, E.P.; Leff, M.; Stillo, F.; **Nylander-French**, L.A.; Linnan, L.: Total Worker Health<sup>®</sup> pandemic strategies and lessons learned. Campus Safety, Health, and Environmental Management Association (CSHEMA) 68<sup>th</sup> Annual Conference, July 26-28, 2021. (virtual presentation).
11. Taylor, L.W.\*; French, J.E.; Robbins, Z.\*; **Nylander-French**, L.A.: Epigenetics is associated with biomarker level variation after occupational exposure to asthma-inducing isocyanates. SouthON and Southeast Regional Research Symposium (SERRS), February 17-18, 2021. (virtual presentation)
12. Taylor, L.W.\*; Boyer J.C.; **Nylander-French**, L.A.: *In Vitro* Toxicity of isocyanates varies under different culture media conditions. SouthON and Southeast Regional Research Symposium (SERRS), February 17-18, 2021. (virtual presentation)
13. Taylor, L.W.\*; French, J.E.; Robbins, Z.\*; **Nylander-French**, L.A.: Epigenetic associations with biomarker levels after occupational exposure to asthma-inducing isocyanates. Society of Risk Analysis Annual Meeting, December 13-17, 2020.
14. Taylor, L.W.\*; Price, E.J.\*\*; French, J.E.; Poole, C.; Robbins, Z.\*; Boyer, J.C.; **Nylander-French**, L.A.: Bioinformatic assessment of molecular signatures associated with isocyanate biomarkers of exposure and susceptibility to isocyanate-induced asthma. Genetics and Environmental Mutagenesis Society of North Carolina (GEMS) Fall Meeting, November 9, 2020. (**2<sup>nd</sup> place presentation award**).
15. Taylor, L.W.\*; French, J.E.; Price, E.J.\*\*; Poole, C.; **Nylander-French**, L.A.: Predicted genetic networks associated with isocyanate biomarkers of exposure and with susceptibility to isocyanate-induced asthma. Society of Toxicology Annual Meeting, Anaheim, CA, March 15-19, 2020.
16. Kapraun, D.F.; Schlosser, P M.; **Nylander-French**, L.A.; Kim, D.; Yost, E.E.; Druwe, I.L.: Development and evaluation of a PBTK model for naphthalene for use in human health risk assessment. Society of Toxicology Annual Meeting, Anaheim, CA, March 15-19, 2020.

17. Taylor, L.W.\*; French, J.E.; Price, E.J.\*\*; Poole, C.; **Nylander-French, L.A.**: Molecular signatures of isocyanate exposure and susceptibility to isocyanate-induced asthma. Southeast Regional Research Symposium, University of Alabama, Birmingham, Alabama, USA, February 27 – 28, 2020.
18. Robbins, Z.\*; Bodnar, W.; Taylor, L.; Zhang, Z.; Gold, A.; **Nylander-French, L.A.**: Biomarkers of oligomeric 1,6-hexamethylene diisocyanate exposure in the automotive refinishing industry. Southeast Regional Research Symposium, University of Alabama, Birmingham, Alabama, USA, February 27 – 28, 2020. (**1<sup>st</sup> place poster award**).
19. Taylor, L.W.\*; French, J.E.; Robbins, Z.G.\*; Boyer, J.C.; **Nylander-French, L.A.**: Influence of genetic variance on biomarker levels after occupational exposure to 1,6-hexamethylene diisocyanate (HDI) monomer and HDI isocyanurate. EUROTOX 2019, Helsinki, Finland, September 8-11, 2019 [**Nominated for Early Career Award**].
20. Taylor, L.W.\*; Price, E.J.\*\*; Poole, C.; **Nylander-French, L.A.**: The genetics of occupational asthma development among workers exposed to diisocyanates: a systematic review with meta-analysis. EUROTOX 2019, Helsinki, Finland, September 8-11, 2019.
21. Taylor, L.W.\*; French, J.E.; Boyer, J.C.; **Nylander-French, L.A.**: Influence of genetics on biomarker levels after occupational exposure to 1,6-hexamethylene diisocyanate and isocyanurate. Southeast Regional Research Symposium, University of South Florida, Tampa, Florida, USA, April 4 – 5, 2019.
22. Jagger, P.; Handa, S.; **Nylander-French, L.A.**; Yeatts, K.; Bittner, A.; Das, I.; De Milliano, M.; Froelking, Z.\*\*; Pedit, J.: Primary cook's CO and PM2.5 exposure in Gisenyi, Rwanda. Triangle Research Initiative on Household Energy Transition, Raleigh, NC, March 21, 2019.
23. Taylor, L.W.\*; Robbins, Z.G.\*; French, J.E.; **Nylander-French, L.A.**: Genetic variance influence on biomarker levels after occupational exposure to 1,6-hexamethylene diisocyanate and its trimer isocyanurate. Genetics and Environmental Mutagenesis Society of North Carolina (GEMS) Fall Meeting, North Carolina Biotechnology Center, Research Triangle Park, North Carolina, USA, November 7, 2018. (**1<sup>st</sup> place poster award**).
24. Kelly-Reif, K.; Sandler, D.; Shore, D.; Schubauer-Berigan, M.; Troester, M.; **Nylander-French, L.**; Richardson, D.: Cancer incidence and mortality among uranium miners in the Příbram region of the Czech Republic. HEIR 2018, 12<sup>th</sup> International Conference on the Health Effects of Incorporated Radionuclides, Fontenay-aux-Roses, France, October 8-11, 2018.
25. Taylor, L.W.\*; French, J.E.; Boyer, J.C.; **Nylander-French, L.A.**: Influence of genetic variance on occupational exposure to 1,6-hexamethylene diisocyanate (HDI) and its trimer HDI isocyanurate. ISES-ISEE 2018, Joint International Society of Exposure Science and International Society for Environmental Epidemiology Conference, Ottawa, Canada, August 26-30, 2018.
26. Robbins, Z.\*; Bodnar, W.; Zhang, Z.; Gold, A.; **Nylander-French, L.A.**: Trisaminohexyl isocyanurate (TAHI) levels in plasma and urine in workers exposed to 1,6-hexamethylene diisocyanate (HDI) monomer and HDI isocyanurate. ISES-ISEE 2018, Joint International Society of Exposure Science and International Society for Environmental Epidemiology Conference, Ottawa, Canada, August 26-30, 2018.
27. Robbins, Z.\*; Bodnar, W.; Zhang, Z.; Gold, A.; **Nylander-French, L.A.**: Quantification of trisaminohexyl isocyanurate (TAHI) as a biomarker of HDI isocyanurate exposure in the plasma and urine of automotive spray painters. ISES-ISEE 2018, Joint International Society

- of Exposure Science and International Society for Environmental Epidemiology Conference, Ottawa, Canada, August 26-30, 2018.
28. Bittner, A.; Pedit, J.; Das, I.; Frolking, Z.\*\*; Handa, S.; **Nylander-French, L.A.**; Yeatts, K.; Jagger, P.: Personal and area concentrations of CO and PM<sub>2.5</sub> in charcoal-burning households in peri-urban Rwanda. Sustainable Energy Transition Initiative (SETI) 2<sup>nd</sup> Annual Meeting, Duke University, Durham, NC, May 11, 2017. [Extended Abstract & Oral Presentation]
  29. Bittner, A.; Pedit, J.; Das, I.; Frolking, Z.\*\*; Handa, S.; **Nylander-French, L.**; Yeatts, K.; Jagger, P.: Quantifying household air pollution in charcoal-burning households in peri-urban Rwanda. 4<sup>th</sup> Annual UNC Climate Change Symposium, Chapel Hill, NC, March 31, 2017 [Poster Presentation].
  30. Bittner, A.; Pedit, J.; Das, I.; Frolking, Z.\*\*; Handa, S.; **Nylander-French, L.A.**; Yeatts, K.; Jagger, P.: Quantifying household air pollution in charcoal-burning households in peri-urban Rwanda. 2017 NC BREATH Conference, Raleigh, NC, March 28, 2017.
  31. **Nylander-French, L.A.**; Boyer, J.C.; Phillips, K.\*\*; Taylor, L.\*\*; Johnson, R.: Viability of Cultured Primary Human Skin Cells Treated with HDI Monomer and HDI Isocyanurate. Society of Toxicology Annual Meeting, Baltimore, Maryland, March 12-16, 2017.
  32. Das, I.; Flax, V.; Handa, S.; Jagger, P.; Pedit, J.; **Nylander-French, L.A.**; Yeatts, K.: The Health and Poverty Effects of an Improved Household Energy System in Rwanda. Regional Workshop on WHO Indoor Air Quality Guidelines in Ethiopia, Addis Ababa, Ethiopia, October 2016.
  33. **Nylander-French, L.A.**; Boyer, J.C.; Phillips, K.\*\*; Taylor, L.\*\*; Johnson, R.: Viability of Cultured Primary Human Skin Cells Treated with HDI Monomer and HDI Isocyanurate. 26<sup>th</sup> International Society of Exposure Science Conference, Utrecht, The Netherlands, October 9-13, 2016.
  34. Frolking, Z.\*\*; Pedit, J.; Yeatts, K.; Jagger, P.; Handa, S.; **Nylander-French, L.A.**: Personal Exposure to Polycyclic Aromatic Hydrocarbons (PAHs), Fine Particulate Matter (PM<sub>2.5</sub>), and Carbon Monoxide (CO) During Cookstove Use in Rwandan Households. 26<sup>th</sup> Annual International Society of Exposure Science Conference, Utrecht, The Netherlands, October 9-13, 2016.
  35. Robbins, Z.\*; Bodnar, W.; Zhang, Z.; Gold, A.; **Nylander-French, L.A.**: Trisaminohexyl Isocyanurate, a Biomarker for HDI Isocyanurate Exposure. 26<sup>th</sup> Annual International Society of Exposure Science Conference, Utrecht, The Netherlands, October 9-13, 2016.
  36. **Nylander-French, L.A.**; Sun, K.Y.\*\*; French, J.E.; Boyer, J.: Influence of Genetic Variance on Occupational Exposure Assessment for 1,6-Hexamethylene Diisocyanate. 26<sup>th</sup> Annual International Society of Exposure Science Conference, Utrecht, The Netherlands, October 9-13, 2016.
  37. Frolking, Z.\*\*; Pedit, J.; Yeatts, K.; Jagger, P.; Handa, S.; **Nylander-French, L.A.**: Personal Exposure to Polycyclic Aromatic Hydrocarbons During Cooking in Rwandan Households. UNC Academic Research Conference, April 8, 2016 (**1st place poster award for the Natural Sciences**).
  38. Sun, K.Y.\*\*; French, J.E.; Boyer, J.; **Nylander-French, L.A.**: Influence of Genetic Markers on Exposure Assessment Models. Society of Toxicology Annual Meeting, New Orleans, LA, March 13-27, 2016.
  39. Frolking, Z.\*\*; Pedit, J.; Yeatts, K.; Jagger, P.; Handa, S.; **Nylander-French, L.A.**: Personal Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) During Cookstove Use in Rwandan Households. Society of Toxicology Annual Meeting, New Orleans, LA, March 13-27, 2016.

40. **Nylander-French**, L.A.; Wu, M.D.; French, J.E.; Boyer, J.C.; Smeester, L.; Sanders, A.P.; and Fry, R.C.: DNA Methylation Modifies Urine Biomarker Levels in 1,6-Hexamethylene Diisocyanate Exposed Workers: A Pilot Study. Society of Toxicology Annual Meeting, San Diego, CA, March 22-25, 2015.
41. **Nylander-French**, L.A.; Wu, M.; Boyer, J.; Sanders, A.P.; French, J.E. and Fry R.: DNA Methylation Modifies Urine Biomarker Levels in 1,6-Hexamethylene Diisocyanate (HDI) Exposed Workers. 9<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Manchester, UK, September 9-11, 2013.
42. Robbins, Z.\*; Bodnar, W.; Zhang, Z.; Gold, A. and **Nylander-French**, L.A.: Isotriamine, a Biomarker for Isocyanurate Exposure. 9<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Manchester, UK, September 9-11, 2013.
43. Robbins, Z.\*; Bodnar, W.; Zhang, Z.; Gold, A. and **Nylander-French**, L.A.: Isotriamine, a Biomarker for Isocyanurate Exposure. Isocyanates and Health: Past, Present and Future, Potomac, MD, April 3-5, 2013.
44. **Nylander-French**, L.A.: Isocyanate Biomarkers. Keynote Lecture, International Conference on Isocyanates and Health: Past, Present and Future, Potomac, MD, April 3-5, 2013.
45. **Nylander-French**, L.A.: Dermal Exposure Assessment, Biomarkers, and Modelling Approaches. Keynote Lecture, 30<sup>th</sup> Annual Conference of the Australian Institute of Occupational Hygienists, Adelaide, Australia, December 1-5, 2012.
46. Jiang, R.\*; French, J.E.; Stober, V.P.\*; Kang-Sickel, J-C.C.\*; and **Nylander-French**, L.A.: Single Nucleotide Polymorphisms Associated with Skin Naphthyl-Keratin Adduct Levels Among Jet Fuel Exposed Workers. Complex Trait Community 11<sup>th</sup> Annual Meeting, Institute Pasteur, Paris, June 12-15, 2012.
47. Thomasen, J.\* and **Nylander-French**, L.A.: Penetration patterns of monomeric and polymeric 1,6-hexamethylene diisocyanate in human skin. Occupational and Environmental Exposures of Skin to Chemicals, Toronto, Canada, 5-8 June, 2011.
48. Jiang, R.\*; French, J.E.; Stober, V.P.\*; Kang-Sickel, J-C.C.\*; Butler, M.A. and **Nylander-French**, L.A.: Single Nucleotide Polymorphisms Associated with Skin Naphthyl-Keratin Adduct Levels Among Jet Fuel Exposed Workers. Occupational and Environmental Exposures of Skin to Chemicals, Toronto, Canada, 5-8 June, 2011.
49. Thomasen, J.\* and **Nylander-French**, L.A.: Dermal penetration of 1,6-hexamethylene diisocyanate (HDI) containing clearcoats. American Industrial Hygiene Conference and Exposition, Portland, OR, May 14-19, 2011.
50. Thomasen, J.\*; Fent, K.\* and **Nylander-French**, L.A.: Development of a sampling patch to measure dermal exposures to monomeric and polymeric 1,6-hexamethylene diisocyanate: A pilot study. American Industrial Hygiene Conference and Exposition, Portland, OR, May 14-19, 2011.
51. Myers, S.L.\*; Hoppin, J.A.; Olshan, A.F.; Herring, A.H.; **Nylander-French**, L.; Schroeder, J.C.; Sandler, D.P. and Baird, D.D.: Pesticide exposures and uterine fibroid risk among framing women. The American College of Epidemiology (ACE), San Francisco, CA, September 11-14, 2010.
52. Flack, S.L.\*; Fent, K.W.\*; Gaines, L.G.T.\*; Thomasen, J.M.\*; Whittaker, S.G; Ball, L.M. and **Nylander-French**, L.A.: Blood biomarkers of exposure to 1,6-hexamethylene diisocyanate. 8<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Espoo, Finland, September 6-8, 2010.



53. Gaines, L.G.T\*; Fent, K.W\*; Flack, S.L.\*; Thomasen, J.M\*; Ball, L.M.; Whittaker, S.G. and **Nylander-French, L.A.**: Urine biomarker analysis of 1,6-hexamethylene diisocyanate exposure. 8<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Espoo, Finland, September 6-8, 2010.
54. Jiang, R.\*; French, J.E.; Stober, V.P.\*; Kang-Sickel, J-C.C.\*; Butler, M.A. and **Nylander-French, L.A.**: Single nucleotide polymorphisms (SNPs) Associated with skin-keratin adduct levels among jet fuel exposed workers. 8<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Espoo, Finland, September 6-8, 2010.
55. Myers, S.L.\*; Baird, D.D.; Olshan, A.F.; Herring, A.H.; Schroeder, J.C.; **Nylander-French, L.** and Hartmann, K.: Accuracy of self-reported uterine fibroid diagnosis. 43<sup>rd</sup> Annual Society for Epidemiologic Research (SER) meeting, Seattle, WA, June 23-26, 2010.
56. Flack, S.\*; Gaines, L.\*; Fent, K.\*; Thomasen, J.\*; Whittaker, S.; Ball, L.M. and **Nylander-French, L.A.**: Hemoglobin adducts and plasma metabolites as biomarkers of exposure to 1,6-hexamethylene diisocyanate. American Industrial Hygiene Conference and Exposition, Denver, CO, May 22-27, 2010.
57. Gaines, L.\*; Fent, K.\*; Flack, S.\*; Thomasen, J.\*; Ball, L.M.; Whittaker, S. and **Nylander-French, L.A.**: Factors affecting levels of urinary biomarker 1,6-hexamethylene diamine (HDA) after exposure to 1,6-hexamethylene diisocyanate (HDI). American Industrial Hygiene Conference and Exposition, Denver, CO, May 22-27, 2010.
58. Thomasen, J.\* and **Nylander-French, L.A.**: Penetration patterns of 1,6-hexamethylene diisocyanate monomer in human skin. American Industrial Hygiene Conference and Exposition, Denver, CO, May 22-27, 2010.
59. Jiang, R.\*; Stober, V.P.\*; French, J.E. and **Nylander-French, L.A.**: Are single nucleotide polymorphisms (SNPs) associated with systemic dose critical in exposure assessment? Society of Toxicology Annual Meeting, Salt Lake City, UT, March 7-11, 2010.
60. Flack, S.\*; Gaines, L.\*; Fent, K.\*; Thomasen, J.\*; Whittaker, S.; Ball, L.M. and **Nylander-French, L.A.**: Hemoglobin adducts and plasma metabolites as biomarkers of exposure to 1,6-hexamethylene diisocyanate. Society of Toxicology Annual Meeting, Salt Lake City, UT, March 7-11, 2010.
61. Gaines, L.\*; Fent, K.\*; Flack, S.\*; Thomasen, J.\*; Ball, L.M.; Whittaker, S. and **Nylander-French, L.A.**: Biomarker analysis of 1,6-hexamethylene diisocyanate exposure. Society of Toxicology Annual Meeting, Salt Lake City, UT, March 7-11, 2010. **Received student travel award from UNC-CH Curriculum of Toxicology.**
62. Kang-Sicke, J.-C.C.\*; Jiang, R.\*; Stober, V.P.\*; French, J.E. and **Nylander-French, L.A.**: Exposure to naphthalene induces naphthyl-keratin adduct formation in human epidermis *in vitro* and *in vivo*. Society of Toxicology Annual Meeting, Salt Lake City, UT, March 7-11, 2010.
63. **Nylander-French, L.A.**; Jiang, R\*; Kang-Sicke, J.-C.C.\* and French, J.E.: Can genetic markers, biomonitoring, and exposure assessment be used to identify at risk susceptible subpopulations? Society of Risk Analysis Annual Meeting, Baltimore, Maryland, December 6-9, 2009.
64. Folley, T. and **Nylander-French, L.A.**: Burden of disease attributable to exposure to occupational hazards in the United Arab Emirates. Society of Risk Analysis Annual Meeting, Baltimore, Maryland, December 6-9, 2009.
65. Jiang, R.\*; Stober, V.P.\*; French, J.E.; Butler, M.A. and **Nylander-French, L.A.**: Are single nucleotide polymorphisms (SNPs) associated with systemic dose critical in exposure

- assessment? Annual meeting of the Superfund Research Program: Emerging Issues, Emerging Progress, New York, NY, November 2-4, 2009.
66. Jiang, R.\*; Stober, V.P.\*; French, J.E.; Butler, M.A. and **Nylander-French, L.A.**: Are single nucleotide polymorphisms (SNPs) associated with systemic dose critical in exposure assessment? GEMS 27<sup>th</sup> Annual Meeting, Chapel Hill, NC, October 5, 2009.
  67. Liljelind, I.; Norberg, C.; Egelrud, L.; Westberg, H.; Eriksson, K. and **Nylander-French, L.A.**: Dermal and inhalation exposure to methylene bisphenyl isocyanate (MDI) in iron foundry workers. X2009 Sixth International Conference on Innovations in Exposure Assessment, Boston, MA, August 17 – 20, 2009.
  68. Gaines, L.\*; Fent, K.\*; Flack, S.\*; Thomasen, J.\*; Ball, L.M.; Richardson D.B.; Ding, K.; Whittaker, S. and **Nylander-French, L.A.**: Urine 1,6-hexamethylene diamine (HDA) levels among workers exposed to 1,6-hexamethylene diisocyanate (HDI). The International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) Workshop, Charleston, SC, June 16-17, 2009.
  69. Flack, S.\*; Fent, K.\*; Gaines, L.\*; Thomasen, J.\*; Ball, L.M.; Whittaker, S. and **Nylander-French, L.A.**: Quantitative plasma biomarker analysis in HDI exposure assessment. The International Council of Chemical Associations' Long-Range Research Initiative (ICCA-LRI) Workshop, Charleston, SC, June 16-17, 2009.
  70. Gaines, L.\*; Fent, K.\*; Flack, S.\*; Thomasen, J.\*; Ball, L.M.; Richardson D.B.; Whittaker, S. and **Nylander-French, L.A.**: Urine 1,6-hexamethylene diamine (HDA) levels among workers exposed to 1,6-hexamethylene diisocyanate (HDI). American Industrial Hygiene Conference and Exposition, Toronto, Canada, May 30-June 4, 2009.
  71. Flack, S.\*; Fent, K.\*; Gaines, L.\*; Thomasen, J.\*; Ball, L.M.; Whittaker, S. and **Nylander-French, L.A.**: Biomonitoring and modeling plasma 1,6-hexamethylene diamine (HDA) among workers exposed to 1,6-hexamethylene diisocyanate (HDI). American Industrial Hygiene Conference and Exposition, Toronto, Canada, May 30-June 4, 2009.
  72. Sobus, J.R.\*; McClean, M.D.; Herrick, R.F.; Waidyanatha, S.; **Nylander-French, L.A.**; Kupper, L.L. and Rappaport S.M.: Comparing urinary biomarkers of exposures to polycyclic aromatic hydrocarbons. Society of Toxicology Annual Meeting, Baltimore, Maryland, March 15-19, 2009.
  73. Fent, K.\*; Jayaraj, K.; Ball, L. and **Nylander-French, L.A.**: Quantitative monitoring and statistical modeling of dermal and inhalation exposure to hexamethylene diisocyanate monomer and oligomers in the automotive refinishing industry. American Industrial Hygiene Conference and Exposition, Minneapolis, MN, May 31-June 5, 2008.
  74. Chao, E.\*; Zhao, Y.\*; Kupper, L. and **Nylander-French L.A.**: Quantifying the relative importance of predictors in multiple linear regression analyses in exposure assessment. American Industrial Hygiene Conference and Exposition, Minneapolis, MN, May 31-June 5, 2008.
  75. Thomasen, J.\*; Fent, K.\* and **Nylander-French, L.A.**: Field comparison of air sampling methods for 1,6-hexamethylene diisocyanate. American Industrial Hygiene Conference and Exposition, Minneapolis, MN, May 31-June 5, 2008. **Received the Best of Session, First Place Student Poster Award.**
  76. Flack, S.\*; Fent, K.\*; Gaines, L.\*; Thomasen, J.\*; Ball, L.M.; Whittaker, S. and **Nylander-French, L.A.**: Quantifying 1,6-hexanediamine in the plasma of workers exposed to 1,6-hexamethylene diisocyanate. American Industrial Hygiene Conference and Exposition,

Minneapolis, MN, May 31-June 5, 2008. **Received the Best Student Poster Presentation Award in Biological Monitoring Session.**

77. Anderson, D.M.\*; **Nylander-French**, L.A. and Dement, J.M.: Application of a lung deposition model to fiber data from three North Carolina asbestos textile plants. American Industrial Hygiene Conference and Exposition, Minneapolis, MN, May 31-June 5, 2008.
78. Kang-Sickel, J-C.C.\*; Chao, Y-C.E.\*, Jayaraj, K.; Gold, A.; Ball, L.M.; Klapper, D.G.; French, J.E. and **Nylander-French**, L.A.: Naphthyl-keratin adducts as biomarkers for jet fuel (JP-8) exposure. Society of Toxicology Annual Meeting, Seattle, Washington, March 16-20, 2008.
79. Chao, E.\*; Zhao, Y.\*; Kupper, L. and **Nylander-French** L.: Quantifying the relative importance of predictors in multiple linear regression analyses in exposure assessment. International Occupational Hygiene Association 7<sup>th</sup> International Scientific Conference, Taipei, Taiwan, February 18-22, 2008.
80. Kang-Sickel, J-C.C.\*; Chao, Y-C.E.\*, Gold, A.; Jayaraj, K.; Klapper, D.G.; Ball, L.M.; French, J.E. and **Nylander-French**, L.A.: Detection of naphthyl-keratin adducts in human skin using ELISA. Superfund Basic Research Program: 20 Years of Success and a Vision for the Future, SBRP Annual Meeting, Durham, North Carolina, December 3-5, 2007.
81. Vupputuri, S.; Parks, C.G.; Davis, H.; **Nylander-French**, L.A.; Hogan, S.L.; Sandler, D.P.: Occupational silica exposure and chronic kidney disease. American Society of Nephrology, October 31-November 5, 2007.
82. Thomasen, J.\*; Fent, K.W.\* and **Nylander-French**, L.A.: Laboratory and field comparison of air sampling cassettes for 1,6-hexamethylene diisocyanate. International Society of Exposure Analysis, 17<sup>th</sup> Annual Conference, Durham, NC, October 14-18, 2007.
83. Jiang, R.\*; Overstreet Galeano, M.A. and **Nylander-French**, L.A.: Development and testing of quantitative monitoring method for dermal exposure to organophosphate pesticides. International Society of Exposure Analysis, 17<sup>th</sup> Annual Conference, Durham, NC, October 14-18, 2007.
84. Flack, S.\*; Goktepe, I.; Ball, L.M. and **Nylander-French**, L.A.: Dermal and inhalation exposure to propiconazole among farm workers in North Carolina. International Society of Exposure Analysis, 17<sup>th</sup> Annual Conference, Durham, NC, October 14-18, 2007.
85. Fent, K.W.\*; Jayaraj, K.; Gold, A.; Ball, L.M. and **Nylander-French**, L.A.: Quantitative monitoring of dermal and inhalation exposure to 1,6-hexamethylene diisocyanate monomer and oligomers in the automotive refinishing industry. International Society of Exposure Analysis, 17<sup>th</sup> Annual Conference, Durham, NC, October 14-18, 2007.
86. Hamra, G.\*\*; Richardson, D and **Nylander-French**, L.A.: Dose reconstruction for an occupational cohort at the Savannah River nuclear facility: evaluation of a hybrid method. International Society of Exposure Analysis, 17<sup>th</sup> Annual Conference, Durham, NC, October 14-18, 2007.
87. Kang-Sickel, J-C.C.\*; Parron, V.\*; Jayaraj, K.; Gold, A.; Ball, L.M.; Klapper, D.G.; French, J.E. and **Nylander-French**, L.A.: Dermal exposure induces keratin adducts in the skin. 7<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Beijing, China, September 10-12, 2007.
88. Kim, D.\*; Andersen, M.E. and **Nylander-French**, L.A.: Dermal and inhalation exposures to jet propulsion fuel type 8 in the U.S. Air Force: development and application of a PBTK model. 7<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Beijing, China, September 10-12, 2007.

89. Kim, D.\*; Farthing, M.W.; Miller, C.T, and **Nylander-French, L.A.**: Transport of Aromatic and Aliphatic Hydrocarbons across Human Skin *In Vivo*. 7<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Beijing, China, September 10-12, 2007.
90. Flack, S.\*; Ball, L.M. and **Nylander-French, L.A.**: Quantification of 1,6-hexanediamine in the plasma of workers exposed to 1,6-hexamethylene diisocyanate. 7<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Beijing, China, September 10-12, 2007.
91. **Nylander-French, L.A.**; Parron, V.\*; Jayaraj, K.; Klapper, D.; Ball, L.M. and A. Gold: Biomarkers of exposure to 1,6-hexamethylene diisocyanate. The U.S. Environmental Protection Agency (USEPA) and the International Council of Chemical Associations (ICCA) Public Health Applications of Human Biomonitoring Workshop, Research Triangle Park, NC, September 24-25, 2007.
92. Hooiveld, M.; **Nylander-French, L.A.**; Breslow, N.E. and Olshan, A.F.: Occupational and genetic risk factors for Wilms' tumor. Dutch Epidemiology Congress, Maastricht, the Netherlands, 21-22 June, 2007.
93. Flack, S.\*; Goktepe, I.; Ball, L.M. and **Nylander-French, L.A.**: Dermal and inhalation exposure to propiconazole among farm workers in North Carolina. American Industrial Hygiene Conference and Exposition, Philadelphia, PA, June 2-7, 2007.
94. Thomassen, J.\*; Fent, K.W.\* and **Nylander-French, L.A.**: Laboratory and field comparison of air sampling cassettes for 1,6-hexamethylene diisocyanate. American Industrial Hygiene Conference and Exposition, Philadelphia, PA, June 2-7, 2007. **Received the 2<sup>nd</sup> Place Student Poster Award in the Gas and Vapor Detection Category.**
95. Fent, K.W.\*; Jayaraj, K.; Gold, A.; Ball, L.M. and **Nylander-French, L.A.**: Quantitative monitoring of dermal and inhalation exposure to 1,6-hexamethylene diisocyanate monomer and oligomers. American Industrial Hygiene Conference and Exposition, Philadelphia, PA, June 2-7, 2007. **Received the Best of Session, First Place Student Poster Award.**
96. Hogan, S.L.; Cooper, G.S.; **Nylander-French, L.A.**; Savitz, D.A.; Chin, H.; Parks, C.G.; Jennette, C.E.; Lionaki, S.; Jennette, J.C. and Falk, R.J.: Influence of silica exposure on disease expression and outcomes in AASV. 13th International Vasculitis and ANCA Workshop, Cancun, Mexico, 26-29, April 2007.
97. Kang-Sickel, J.-C.C.\*; Parron, V.\*; Gold, A.; Ball, L.M.; Karupiah, J.; Klapper, D.G.; French, J.E. and **Nylander-French, L.A.**: Detection of naphthalene keratin adducts in human skin using ELISA. 14<sup>th</sup> North American Meeting of International Society for the Study of Xenobiotics, Rio Grande, Puerto Rico, October 22-26, 2006.
98. **Nylander-French, L.A.**; Parron, V.\*; Gaines, L.\*; Jayaraj, K.; Klapper, D.; Ball, L.M. and Gold, A.: Biomarkers of Exposure to Hexamethylene Diisocyanate. ICCA (International Council of Chemical Associations) Biomonitoring Workshop, The Depot – Minneapolis, Minnesota, July 26-27, 2006.
99. Thomassen, J.\*; Fent, K.\*; Leith, D. and **Nylander-French, L.A.**: Characterizing the errors associated with two-stage filter cassettes designed to separate isocyanate vapor and aerosols. American Industrial Hygiene Conference and Exposition, Chicago, IL, May 13-18, 2006.
100. Chao, Y.-C.E.\*; Kupper, L.L.; Serdar, B.; Egeghy, P.P.; Rappaport, S.M. and **Nylander-French, L.A.**: Dermal exposure to jet fuel JP-8 significantly contributes to the production of urinary naphthols in fuel-cell maintenance workers. VII International Scientific Conference

- “Current and Future Challenges in Environmental Health, Toxicology, and Food Safety in Eastern and Central Europe”, Kyiv, Ukraine, 2-5 May, 2006.
101. Liljelind, I.; **Nylander-French**, L.A. and Eriksson, K.: Tape-strip method can be used to measure exposure of ethyleneglycol dimethacrylate (EGDMA) among dental technicians. Swedish Occupational and Environmental Medicine Spring Meeting, Umeå, Sweden, April 26-28, 2006.
  102. Kim, D.\*; Andersen, M.E. and **Nylander-French**, L.A.: Estimation of Human Skin Permeability Coefficients of Jet Fuel Components *In Vivo*. Society of Toxicology Annual Meeting, San Diego, CA, March 5-9, 2006.
  103. Flack, S.\*; Goktepe, I.; Ball, L.M. and **Nylander-French**, L.A.: Dermal exposure to propiconazole among farm workers. Society of Toxicology Annual Meeting, San Diego, CA, March 5-9, 2006.
  104. **Nylander-French**, L.A.; Kang, J.-C.C.\*; Parron, V.\*; Ball, L.M. and French, J.E.: Naphthalene forms keratin-2-naphthyl adducts in full-thickness reconstructed human epidermis *in vitro* after repeated topical exposure. 13<sup>th</sup> North American Meeting of International Society for the Study of Xenobiotics, Maui, Hawaii, October 23-27, 2005.
  105. Fent, K.W.\*; Jayaraj, K.; Gold, A.; Ball, L.M. and **Nylander-French**, L.A.: Development of a tape-strip method to quantify dermal exposure to hexamethylene. Occupational and Environmental Exposures of Skin to Chemicals, Stockholm, Sweden, 12-15 June, 2005.
  106. Hagström, K.; Eriksson, K.; Axelsson, S.; Bryngelsson, I.L. and **Nylander-French**, L.A.: Assessment of skin exposure to resin acids during the production of wood pellets using the tape-strip method. Occupational and Environmental Exposures of Skin to Chemicals, Stockholm, Sweden, 12-15 June, 2005.
  107. Liljelind, I.; **Nylander-French**, L.A. and Eriksson, K.: Tape-strip method can be used to measure exposure of ethyleneglycol dimethacrylate (EGDMA) among dental technicians. Occupational and Environmental Exposures of Skin to Chemicals, Stockholm, Sweden, 12-15 June, 2005.
  108. Kim, D.\* and **Nylander-French**, L.A.: A description of the dermal absorption of aromatic and aliphatic hydrocarbons in jet propulsion fuel 8. Occupational and Environmental Exposures of Skin to Chemicals, Stockholm, Sweden, 12-15 June, 2005.
  109. Chao, Y-C.E.\*; Kupper, L.L.; Serdar, B.; Egeghy, P.P.; Rappaport, S.M. and **Nylander-French**, L.A.: Dermal exposure to JP-8 contributes to the production of urinary naphthols. Occupational and Environmental Exposures of Skin to Chemicals, Stockholm, Sweden, 12-15 June, 2005.
  110. Kim, D.\*; **Nylander-French**, L.A.; Pleil, J.D. and Prah, J.D.: Development of a physiologically-based pharmacokinetic model for dermal absorption and penetration of methyl *tertiary* butyl ether in humans. Occupational and Environmental Exposures of Skin to Chemicals, Stockholm, Sweden, 12-15 June, 2005.
  111. Fent, K.W.\*; Jayaraj, K.; Gold, A.; Ball, L.M. and **Nylander-French**, L.A.: Development of a tape-stripping method to quantify dermal exposure to hexamethylene diisocyanate. American Industrial Hygiene Conference and Exposition, Anaheim, CA, May 21-26, 2005.
  112. Chao, Y-C.E.\*; Kupper, L.L.; Serdar, B.; Egeghy, P.P.; Rappaport, S.M. and **Nylander-French**, L.A.: Dermal exposure to JP-8 contributes to the production of urinary naphthols. American Industrial Hygiene Conference and Exposition, Anaheim, CA, May 21-26, 2005.
  113. **Nylander-French**, L.A.; Fox, D.\*\*; Jayaraj, K.; Klapper, D.; Gold, A.; Ball, L.M. and French, J.E.: Cysteinyl Keratin 1 and 10 protein adducts of benzene oxide and naphthalene-

- 1,2-oxide for quantification of dermal exposure to benzene and naphthalene. Society of Toxicology Annual Meeting, New Orleans, LA, March 6-10, 2005.
114. Hogan, S.L.; Cooper, G.S.; **Nylander French**, L.A.; Parks, C.P.; Savitz, D.A.; Chin, H.; Jennette, C.E.; Jennette, C. and Falk, R.J.: Duration of silica exposure and development of ANCA-associated small vessel vasculitis (ANCA-SVV) with glomerular involvement: a case-control study. American Society of Nephrology 37th Annual Meeting & Scientific Exposition, St. Louis, Missouri, October 29-November 1, 2004.
115. Chao, Y-C.E.\* and **Nylander-French**, L.A.: Dermal exposure to JP-8 on U.S. Air Force fuel-cell workers. 6<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Heidelberg, Germany, September 6-8, 2004.
116. Kim, D.\* and **Nylander-French**, L.A.: A pharmacokinetic model of human dermal exposure to jet propellant type 8 fuel. 6<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Heidelberg, Germany, September 6-8, 2004.
117. Fox, D.\*\*; Jayaraj, K.; Klapper, D.; Gold, A.; Ball, L.M.; French, J.E. and **Nylander-French**, L.A.: Cysteinyl keratin-1 and keratin-10 protein adducts of benzene oxide and naphthalene-1,2-oxide for quantification of dermal exposure to benzene and naphthalene. 6<sup>th</sup> International Symposium on Biological Monitoring in Occupational and Environmental Health, Heidelberg, Germany, September 6-8, 2004.
118. Chao, Y-C.E.\*; Serdar, B.; Egeghy, P.P.; Rappaport, S.M. and **Nylander-French**, L.A.: Dermal exposure to JP-8 jet fuel for fuel-cell maintenance workers at Air Force bases. American Industrial Hygiene Conference and Exposition, Atlanta, GA, May 8-13, 2004. **Received the Best Student Oral Presentation Award.**
119. Fent, K.W.\*; Jayaraj, K.; Gold, A.; Ball, L.M. and **Nylander-French**, L.A.: Quantification of hexamethylene diisocyanate with gas chromatography and ion trap mass spectrometry. American Industrial Hygiene Conference and Exposition, Atlanta, GA, May 8-13, 2004.
120. Fox, D.\*\*; Jayaraj, K.; Klapper, D.; Gold, A.; Ball, L.M.; French, J.E. and **Nylander-French**, L.A.: Cysteinyl keratin-1 and keratin-10 protein adducts of benzene oxide and of naphthalene-1,2-oxide for quantification of benzene and naphthalene in the skin. American Industrial Hygiene Conference and Exposition, Atlanta, GA, May 8-13, 2004.
121. Jones, K.\*\*; Hornsby-Myers, J.; **Nylander-French**, L.; Soderholm, S.: Field testing of a system using GPS and near-real-time monitors for exposure assessment with the US Coast Guard. American Industrial Hygiene Conference and Exposition, Atlanta, GA, May 8-13, 2004. **Received the Best Poster Award.**
122. **Nylander-French**, L.A.; Jayaraj, K.; Klapper, D.; Ball, L.M. and Gold, A.: Biomarkers of Exposure to Hexamethylene Diisocyanate. American Chemistry Council, 2<sup>nd</sup> LRI Annual Science Meeting, Miami, Florida, May 5-6, 2004.
123. Kim, D.\* and **Nylander-French**, L.A.: A two-compartment pharmacokinetic model of human dermal exposure to JP-8. Superfund Basic Research Program Annual Meeting – Integrating Perspectives, Hanover, NH, November 9-12, 2003.
124. Chao, Y-C.E.\* and **Nylander-French**, L.A.: Dermal exposure model for JP-8 jet fuel exposure using the tape-stripping method. American Industrial Hygiene Conference and Exposition, Dallas, TX, May 10-15, 2003. **Received the Best Student Oral Presentation Award.**
125. Trent, C.\*\*; **Nylander-French**, L.; Ball, L.; Gold, A. and Koc H.: Development of a tape-stripping method to quantify dermal exposure to hexamethylene diisocyanate during spray

- painting. American Industrial Hygiene Conference and Exposition, Dallas, TX, May 10-15, 2003.
126. Chao, Y.-C.E.\* and **Nylander-French**, L.A.: Standardization of the tape-strip sample by determination of keratin in the sample after exposure to jet fuel. Society of Toxicology Annual Meeting, Salt Lake City, Utah, March 9-13, 2003.
  127. Trent, C.B.\*\*; Gold, A.; Koc, H.; Li, Y.; Ball, L.M. and **Nylander-French**, L.A.: An analytical method for measuring dermal exposure to hexamethylene diisocyanate. Society of Toxicology Annual Meeting, Salt Lake City, Utah, March 9-13, 2003.
  128. Parks, C.G.\*; Cooper, G.S.; **Nylander-French**, L.; Sanderson W., Dement, J. and Hoppin, J.A.: Assessing occupational exposure to crystalline silica in a population-based study of systemic lupus erythematosus (SLE). Third International Symposium on Silica, Silicosis, Cancer and other Diseases, Santa Margherita Ligure, Italy, 21-25 October 2002.
  129. Boeniger, M. and **Nylander-French**, L.A.: Comparison of three methods for determining removal of stratum corneum using adhesive tape strips. International Society of Bioengineering and Skin, Boston, MA, USA, October 2002.
  130. Chao, Y.E.\* and **Nylander-French**, L.A.: Dermal Exposure Model for Jet Fuel Exposure Using Tape-Stripping Method. The International Conference on Occupational & Environmental Exposures of Skin to Chemicals: Science & Policy, Washington D.C., USA, September 8-11, 2002.
  131. Chao, Y.E.\* and **Nylander-French**, L.A.: Determination of keratin proteins in a tape-stripped skin sample from jet fuel exposed skin: standardization of the tape-stripping method. The International Conference on Occupational & Environmental Exposures of Skin to Chemicals: Science & Policy, Washington D.C., USA, September 8-11, 2002.
  132. Trent, C.B.\*\*; **Nylander-French**, L.A.; Ball, L.M.; Gold, A.; Koc, H.: Development of an analytical method to detect dermal exposure to hexamethylene diisocyanate. The International Conference on Occupational & Environmental Exposures of Skin to Chemicals: Science & Policy, Washington D.C., USA, September 8-11, 2002.
  133. Boeniger, M. and **Nylander-French**, L.A.: Comparison of three methods for determining removal of stratum corneum using adhesive tape strips. International Conference on Dermal Exposure and Disease, Washington D.C., USA, September 8-11, 2002.
  134. Parks, C.G.\*; Cooper, G.S.; **Nylander-French**, L.; Sanderson W., Dement, J. and Savitz, D.A.: Crystalline silica and risk of systemic lupus erythematosus: a population-based case-control study in the Southeastern United States. *Epidemiology*, 12 (4): S67, 2001.
  135. Parks, C.G.\*; Cooper, G.S.; **Nylander-French**, L.A.; Archer, J.\* and Storm, J.F.: Measuring silica dust exposure in a population-based study of systemic lupus erythematosus. *Epidemiology*, 12 (4): S68, 2001.
  136. Egeghy, P.P.\*; Gwin, K.\*\*; **Nylander-French**, L.; Hertz-Picciotto, I. and Rappaport, S.M.: Benzene uptake among automobile mechanics: concentrations in exhaled breath using a self-administered sampling technique. American Industrial Hygiene Conference and Exposition, New Orleans, LA, June 2-7, 2001.
  137. Nam, T.-G.; Sangaiah, R.; Gold, A.; Lacks, G.D.; French, J.E. and **Nylander-French**, L.A.: Synthesis of S-aryl-modified cysteines, Fmoc derivatives and peptides of keratin 10 containing the modified cysteine epitope for polyclonal antisera production. Superfund Basic Research Program, Oxidative Processes: Stress to Remediation, Chapel Hill, North Carolina, December 12-14, 2000.

138. Parks, C.G.\*; Cooper, G.S.; **Nylander-French, L.**; Hoppin, J.; Dooley, M.A.; Treadwell, E.L.; St. Clair, E.W. and Gilkeson G.S.: Association between occupational and agricultural silica exposure and systemic lupus erythematosus. American College of Rheumatology. Arthritis and Rheumatism 43(9):S130-S130, 2000.
139. **Nylander-French, L.A.**: A dermal sampling method for measuring skin exposure to multifunctional acrylates. American Industrial Hygiene Conference and Exposition, May 20-25 2000, Orlando, Florida, USA.
140. Mattorano, D.A.\*\* and **Nylander-French, L.A.**: Predicting dermal exposure to jet fuel (naphthalene) using an adhesive tape-stripping method. American Industrial Hygiene Conference and Exposition. 20-25 May 2000, Orlando, Florida, USA.
141. Archer, J.D.\*\*; **Nylander-French, L.A.**; Reist, P.C.; Storm, J.F. and Cooper, G.S.: Farm workers' exposure to respirable silica dust in eastern North Carolina. American Industrial Hygiene Conference and Exposition. 20-25 May 2000, Orlando, Florida, USA.
142. Parks, C.G.\*; Cooper, G.S.; **Nylander-French, L.A.** and Savitz, D.A.: A Population-Based Study of Occupational Exposure to Crystalline Silica and Systemic Lupus Erythematosus. American Journal of Epidemiology, 151(11):S82-S82, 2000.
143. Archer, J.D.\*\*; **Nylander-French, L.A.**; Reist, P.C.; Storm, J.F. and Cooper, G.S.: Farm workers' exposure to respirable silica dust in eastern North Carolina. 12<sup>th</sup> Annual North American Agromedicine Consortium Meeting. 25-28 September 1999, Raleigh, North Carolina, USA.
144. **Nylander-French, L.A.**; Kupper, L.L. and Rappaport S.M.: Factors contributing to styrene and styrene-7,8-oxide exposures in the reinforced-plastics industry. American Industrial Hygiene Conference and Exposition. 5-11 June 1999, Toronto, Ontario, Canada.
145. Gwin, K.\*\*; **Nylander-French, L.**; Egeghy, P.; Rappaport, S. and Hertz-Picciotto, I.: Benzene exposure in garage mechanics. American Industrial Hygiene Conference and Exposition. 5-11 June 1999, Toronto, Ontario, Canada.
146. McCurdy, A.\*\*; **Nylander-French, L.A.** and Wijnberg L.: Exposure to 60-Hz magnetic fields in working women and homemakers. American Industrial Hygiene Conference and Exposition. 5-11 June 1999, Toronto, Ontario, Canada.
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