

CURRICULUM VITAE

RICHARD LEE NEITZEL

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EDUCATION AND QUALIFICATIONS

PhD Environmental and Occupational Hygiene, University of Washington, Seattle, WA, 2009
MS Environmental Health, University of Washington, Seattle, WA, 1998
BS Safety (Psychology minor), University of Southern California, Los Angeles, CA, 1996
Certified Industrial Hygienist (CIH), Comprehensive Practice, American Board of Industrial Hygiene, 2003

EXPERIENCE

Position	Organization	Dates
Professor of Environmental Health Sciences	University of Michigan (UM) Department of Environmental Health Sciences, Ann Arbor, MI	2021-present
Professor of Global Public Health	University of Michigan (UM), Ann Arbor, MI	2021-present
Associate Director of Global Public Health	University of Michigan (UM) School of Public Health, Ann Arbor, MI	2020-present
Associate Professor of Global Public Health	University of Michigan (UM), Ann Arbor, MI	2018 – 2021
Associate Professor of Environmental Health Sciences	University of Michigan (UM) Department of Environmental Health Sciences, Ann Arbor, MI	2016 – 2021
Associate Chair of Environmental Health Sciences	University of Michigan (UM) Department of Environmental Health Sciences, Ann Arbor, MI	2016 – 2020
Assistant Professor of Environmental Health Sciences	University of Michigan (UM) Risk Science Center and Department of Environmental Health Sciences, Ann Arbor, MI	2011 – 2016
Visiting Researcher	Environmental and Occupational Medicine, Sahlgrenska University Hospital, University of Göteborg, Göteborg, Sweden	2012 – 2020
Visiting Researcher	Karolinska Institute, Stockholm, Sweden	2012 – 2013
Research Consultant	New York City Department of Health and Mental Hygiene, New York, NY	2011 – 2012

Position	Organization	Dates
Research Scientist	University of Washington (UW) Department of Environmental and Occupational Health Sciences, Seattle, WA	2000 – 2011
Research Consultant	Columbia University Department of Sociomedical Sciences, New York, NY	2008 – 2011
Research Industrial Hygienist	UW Department of Environmental and Occupational Health Sciences, Seattle, WA	1998 – 2000
Research Consultant	United Brotherhood of Carpenters/National Institute for Occupational Safety and Health, Seattle, WA	1998
Research Assistant	UW Department of Environmental Health, Seattle, WA	1997 – 1998
Industrial Hygiene Intern	Safety and Claims Management, Metro-King County, WA	1997 – 1998
Safety Intern	Seagate Substrates, Inc., Anaheim, CA	1996
Safety and Health Intern	Risk Management Section, Los Angeles County Department of Public Works, CA	1995 – 1996
Laboratory Technician	University of Southern California Head Protection Research Laboratory, Los Angeles, CA	1994 – 1996

AWARDS

American Industrial Hygiene Association AIHA Bestseller Award recipient for The Noise Manual, 6th edition, 2024

American Industrial Hygiene Association Edward J. Beier Technical Achievement Award, 2023

American Industrial Hygiene Association AIHA Bestseller Award recipient for The Noise Manual, 6th edition, 2023

American Industrial Hygiene Association AIHA Critics' Choice Award recipient for The Noise Manual, 6th edition, 2023

National Hearing Conservation Association Michael Beall Threadgill Award for Outstanding Leadership and Service, 2022

National Hearing Conservation Association Outstanding Lecture Award, 2019

University of Michigan Interprofessional Leadership Fellow, 2018

University of Michigan School of Public Health Excellence in Teaching Award recipient, 2017

Fellow of the American Industrial Hygiene Association, 2015

American Industrial Hygiene Association Project Team Award for 85-3 Project, 2012

National Institute for Occupational Safety and Health "National Occupational Research Agenda Innovative Research Award, 2011"

University of Washington School of Public Health "Gilbert S. Omenn Award for Academic Excellence, 2009"

American Industrial Hygiene Association Scholarship, 2007

American Industrial Hygiene Association Biological Monitoring Committee "Best Student Oral Presentation, 2007"

American Industrial Hygiene Association "Future Leaders Institute" invitee, 2006

3M Corporation Industrial Hygiene Scholarship, 2006

American Industrial Hygiene Association Noise Committee "Outstanding Lecture Award" – 1999, 2004, 2005, and 2010

University of Washington Department of Environmental and Occupational Health Sciences “Community Outreach Award, 2004”

Puget Sound Safety Summit “Trainer of the Year for the Overall Good of the Industry, 2002”

Pacific Northwest Section-American Industrial Hygiene Association Scholarship, 1997

Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health Fellowship, 1996-1997.

RESEARCH

Current Support

1. Apple Inc, AWD013268. Apple Hearing Study. 20% effort. **PI, R Neitzel**. 9/1/21-8/31/29. Total Direct Costs (TDC) \$6,931,900.
2. Apple Inc, AWD022902. Validation of Smartphone-Based Hearing Test Results. 5% effort. **PI, R Neitzel**. 1/1/2023-12/31/2024. Total Direct Costs (TDC) \$206,900.
3. National Institute for Occupational Safety and Health, T42 OH008455. University of Michigan Education and Research Center. 25% effort. Center Director, Director of Industrial Hygiene Program. **PI, R Neitzel**. 7/1/18-6/30/23. TDC \$8,592,930.
4. National Institute on Minority Health and Health Disparities, T37MD001425. University of Michigan Minority Health and Health Disparities International Research Training Program. **PI M Boulton, Co-I, R Neitzel**. 7/1/19-6/30/24. \$1,250,000 TDC.
5. Department of Health and Human Services. NU50CK000510. FY2022 COVID-19 Targeted Wastewater Based Epidemiology for SARS-CoV-2 in buildings on- and off- University of Michigan Campus. **PI, Xi. Co-I, R Neitzel**. 1/1/2022-12/31/2025. TDC \$986,945.
6. National Institute of Environmental Health Sciences, GRANT13177915. R25 Michigan-Ohio Occupational Research Education (MOORE) Program. **Co-I, R Neitzel**, **PI, S Batterman**. 5% effort. 5/1/21-4/30/26. TDC \$1,246,640. 9/1/2021-8/31/2026.

Pending Support

Past Support

1. National Institute for Occupational Safety and Health, R21 OH011896. Exploring the association between occupational noise exposures and injuries. 15% effort. **PI, R Neitzel**. 9/1/19-8/30/24. TDC \$274,604.
2. National Institute for Occupational Safety and Health, R01 OH011082. Novel gas chromatography for rapid, in-situ workplace hazardous VOC analysis. 8% effort. **PI, X Fan, Co-I, R Neitzel**. 8/1/18-11/30/23. TDC \$1,442,492, of which my budget was \$177,000.
3. Ford Motor Company, N029580. Social Determinants of COVID-19 in Ford Employees in Southeastern Michigan: A Longitudinal Study. 5% effort. **PI, J Eisenberg and N Fleischer, Co-I, R Neitzel**. 10/1/20-12/31/21. TDC \$250,000.
4. University of Michigan Provost’s Office and School of Public Health. Understanding COVID exposure risks on campus. **Co-PI, R Neitzel**. 7/21/20-12/31/21. TDC \$125,000.
5. National Institute for Occupational Safety and Health. Intergovernmental Personnel Agreement for Assistance with National COVID-19 Response. 15% effort. **PI, R Neitzel**. 9/1/20-8/31/21. TDC \$35,828.
6. AFA-Försäkring (Sweden), Dnr 110104. Effects of noise exposure and hearing loss on risk of cardiovascular disease. 4% effort. **Co-PIs, R Neitzel** and **E Andersson**. 4/1/17-6/1/21. TDC \$292,345.

7. Alpha Foundation for Mine Safety and Health, AFC719-20. Assessing Noise Exposures, Hearing, and Risk of Injuries Among Miners. 25% effort. **PI, R Neitzel**. 9/1/18-5/30/20. TDC \$208,011.
8. Development of Guidelines to Protect the US Public from Noise Exposure. Department of Health and Human Services, Federal Occupational Health, Contract number HHSP2332014000131. 11/8/2017-8/31-2018. **PI, R Neitzel**. TDC \$42,500.
9. University of Michigan MCubed Program. Enhancing Informal Electronic Waste Recycling Tools and Methods. 1/1/19-12/31/19. 0% effort. **PI, R Neitzel**. TDC \$60,000.
10. University of Michigan Graham Sustainability Institute. Identifying Comprehensive Solutions To Electronic Waste Recycling. 2% effort. **PI, R Neitzel**. 9/1/2016-12/31/2019. TDC \$250,000.
11. University of Michigan Lifestage Environmental Exposures and Disease (M-LEEd) Center. Health risks to vulnerable populations from exposure to airborne asbestos from the demolition of abandoned homes in Detroit. 4/1/17-3/31/18. 0% effort. **PI, R Neitzel**. TDC \$49,578.
12. University of Michigan Office of Research. Asbestos Emissions Related to the Demolition of Abandoned Residential Dwellings in Detroit. 1/1/17-8/31/17. 0% effort. **PI, R Neitzel**. TDC \$23,500.
13. University of Michigan MCubed Program. Public health and public policy approaches to electronic waste recycling. 12/1/16-12/31/17. 0% effort. **PI, R Neitzel**. TDC \$60,000.
14. University of Michigan Dow Distinguished Award Program. Feasibility Study for the Development of a Sustainability Consulting Firm. 0% effort. 5/30/17-5/29/18. **Faculty advisor, R Neitzel**. TDC \$5,000.
15. National Institute for Occupational Health and Safety T42 OH008455. The University of Michigan Education and Research Center. 15% effort. **PI, S Batterman; Co-I R Neitzel**. 7/1/2013-6/30/2018. TDC \$8,101,830, of which my budget was \$500,000.
16. University of Michigan Office of Global Public health. Policy and waste management issues in informal electronic waste recycling. 3/15/18-6/30/18. **PI, R Neitzel**. TDC \$7,500.
17. National Institute for Occupational Safety and Health. R01 OH008641. Daily Exposure Monitoring Intervention to Prevent Hearing Loss. 20% effort. **Co-PI, R Neitzel** and P Rabinowitz. 7/1/12-6/30/17, TDC \$1,589,438. **UM subcontract**, TDC \$427,147.
18. National Institute for Occupational Health and Safety, R01 OH010132. Assessing hearing conservation effectiveness. 20% effort. **Co-PI, R Neitzel** and P Rabinowitz. 9/1/11-6/30/17, TDC \$1,231,051. **UM subcontract**, TDC \$330,614.
19. University of Michigan National Institute for Occupational Safety and Health, 1R21OH010482. Development of a US/Canadian Job Exposure Matrix for Noise. 15% effort. **PI, R Neitzel**. 9/1/13-8/30/17. TDC \$275,000.
20. AFA-Försäkring (Sweden). Assessment of cardiovascular disease associated with noise, dust and shiftwork. 10% effort. E Anderson, **PI**. 1/1/13-12/31/16, **PI on UM subcontract, R Neitzel**, TDC \$47,980.
21. The Gerber Foundation. Evaluation of the Effects of Prenatal Exposure to Non-Essential Heavy Metals on Hearing. 10% Effort. **PI, R Neitzel**. 5/1/13-4/30/16, TDC \$125,740.
22. National Institute for Deafness and Communication Disorders, 1R03DC013378. Pilot assessment of the effects of noise, lead, and cadmium on hearing in mice. 10% effort. **PI, R Neitzel**. 7/1/13-9/30/15. TDC \$155,500.
23. University of Michigan Risk Science Center. Risks and Risk Reduction Strategies Related to Noise Exposure. 0% effort. **PI, R Neitzel**. 2/1/14-8/30/15. \$108,220.
24. University of Michigan Graham Institute for Sustainability. Integrated Assessment of Water Sustainability, Infrastructure Inequalities. 0% effort. **Co-PI, R Neitzel**. 1/1/12-8/1/15. TDC \$349,950.

25. University of Michigan Thai Studies Grant Program, Center for Southeast Asian Studies. 0% effort. **PI, R Neitzel.** 4/1/15-3/31/16, TDC \$3300.
26. University of Michigan Office of Research. Noise, heavy metals, and hearing loss among electronic waste recycling workers in Accra, Ghana. 0% effort. **PI, R Neitzel.** 4/1/14-3/31/15, TDC \$14,887.
27. University Research Corridor. Evaluation of the Effects of Prenatal Exposure to Non-Essential Heavy Metals on Hearing. 0% effort. **PI, R Neitzel.** 12/1/12-4/1/15, TDC \$24,488.
28. University of Michigan Injury Center. Evaluation of Risk Factors for Vehicle/Bicycle Crashes. 0% effort. **PI, R Neitzel.** 8/1/12-7/31/13, TDC \$24,524.
29. University of Michigan Center for Occupational Health and Safety Engineering. Evaluation of noise, stress, and injury risk among firefighters. 0% effort. **PI, R Neitzel.** 7/1/13-6/30/14. TDC \$19,452.
30. University of Michigan Center for Occupational Health and Safety Engineering. Heavy Metals Exposure, Noise and Hearing Loss Among E-waste Workers in Accra, Ghana. 0% effort. **PI, R Neitzel.** 2/1/14-6/30/14. TDC \$19,854.
31. University of Michigan MCubed Program. Risk Governance for Disruptive Technologies. 12/1/12-6/1/14. 0% effort. **PI, R Neitzel.** TDC \$60,000.
32. National Institute for Occupational Health and Safety, R01 OH009655. Control of welding fume exposures in shipbuilding confined spaces. 10% effort. Co-I, N. Seixas, PI. 9/15/10-9/14/13, TDC \$749,999. **PI on UM subcontract, R Neitzel,** \$31,124.
33. Etymotic Research, Inc equipment grant. **PI, R Neitzel.** 3/1/13, TDC \$5000.
34. National Institute for Occupational Safety and Health. Assessing agricultural safety and health among Hmong farmers. 5% effort. PI, AB de Castro. **Consultant, R Neitzel.** 10/1/11-9/30/13, TDC \$187,338.
35. Karolinska Institute, Stockholm, Sweden. A study to characterize exposures to work and non-work noise. 10% effort. **PI, R Neitzel.** 6/1/12-8/15/12, TDC \$8,095.
36. University of Michigan Spring/Summer Research Grants Program, 2012. 0% effort. **PI, R Neitzel.** 5/1/12-8/31/12, TDC \$11,359.
37. National Institute of Environmental Health Sciences, R01 ES017809. Characterization of exposure and response biomarkers among welder apprentices. 10% effort. PI, N Seixas. **Co-I, R Neitzel.** 9/15/10-9/14/13, TDC \$1,188,173.
38. Washington State Department of Labor and Industries, 2009-ZH-00115. Development of an effective labor/management health and safety committee in a dual-lingual, high-hazard industry. 10% effort. PI, N Seixas. **Co-I, R Neitzel.** 6/15/10-2/1/12. TDC \$223,479. **PI on UM subcontract, R Neitzel,** \$6,139.
39. National Institute of Environmental Health Sciences, R21 ES015347A. Noise exposure and health outcomes in subway riders. PI, R Gershon. **Co-I, R Neitzel.** 10% effort. 3/01/08-2/28/10, TDC \$275,000.
40. National Institute for Occupational Safety and Health, R01 OH 003912-06. Longitudinal follow-up of hearing in construction workers. PI, N Seixas. **Co-I, R Neitzel.** 20%, 9/1/05-8/31/10, TC \$2,232,914.
41. National Institute for Occupational Safety and Health, 1 R01 OH 008078. Effectiveness of training and reinforcement on HPD use among construction workers. PI, N Seixas. **Co-I, R Neitzel.** 20%. 4/01/05-3/31/09; TC \$1,044,211.
42. Custom Protect Ear, Inc. Assessing Hearing Protection Device Attenuation. PI, N Seixas. **Co-I, R Neitzel.** 25% effort. 4/25/05-7/15/05, TC \$12,646.
43. Custom Protect Ear, Inc. Assessing Hearing Protection Device Attenuation. PI, N Seixas. **Co-I, R Neitzel.** 25% effort. 10/1/03-1/31/04, TC \$20,200.

44. National Institute for Occupational Safety and Health, R01 OH 003912. Prospective study of hearing damage among newly-hired construction workers. PI, N Seixas. **Co-I, R Neitzel**. 50% effort. 9/30/99-9/29/04; TDC \$1,379,737.
45. National Institute for Occupational Safety and Health, R01 OH 03965. Peak Exposures in Aluminum Smelting. PI, N. Seixas. **Co-I, R Neitzel**. 5% effort. 9/30/99-9/29/02, \$475,000 (TDC).
46. Pacific Northwest Center for Agricultural Safety and Health. Vibration and Noise Exposures and Health Effects in Logging Operations. PI, M Yost. **Co-I, R Neitzel**. 50% effort, 9/30/99-9/29/01, \$200,000 TDC.
47. WA State Dept. of Labor and Industries. Puget Sound Area Construction Safety Summit. Evaluation sub-contract. PI, N Seixas. **Co-I, R Neitzel**. 25% effort. 7/1/2000-6/30/2001, \$250,000 TDC (\$30,000 subcontract).
48. Center to Protect Workers' Rights. Noise Exposure Among Construction Trades. 9/1/97-8/30/98. **PI, R Neitzel**. 100% effort. \$16,709 TDC.

BIBLIOGRAPHY

Scopus H-Index: 39

Peer-Reviewed, Published (T denotes trainee, * denotes corresponding author)

1. He JT, Shkembi AT, Smith L, **Neitzel RL***. Evaluating the Impact of Occupational Noise Exposure on Workplace Fatal and Nonfatal Injuries in the U.S. (2006-2020). *Int J Hyg Environ Health* (2025) 263, 114468
2. Le AB, Shkembi AT, Gibbs SG, **Neitzel RL**. A pilot study on psychosocial factors and perceptions of organizational health among a sample of U.S. waste workers. *Sci Reports*. 2024 Apr 22;14(1):9185.
3. Shkembi AT, Zelner J, Park SK, Neitzel RL. Workplace exposures vary across neighborhoods in the US: implications on social vulnerability and racial/ethnic health disparities. *J Racial Ethnic Health Disparities* Aug 2024. 10.1007/s40615-024-02143-5
4. Shkembi AT*, Smith LM, **Neitzel RL**. Risk perception or hazard perception? Examining misperceptions of miners' personal exposures to noise. *Int J Hyg Environ Health*. 2023 Sep; 254: 114263.
5. Torén K, **Neitzel RL**, Eriksson HP, Andersson E. Occupational exposure to noise and dust in Swedish soft paper mills and mortality from ischemic heart disease and ischemic stroke: a cohort study. *Int Arch Occup Environ Health* 2023 Sep;96(7):965-972.
6. Torén K, **Neitzel RL**, Eriksson HP, Andersson E. Cancer incidence among workers in soft paper mills: a cohort study. *Am J Ind Med*. 2023 Sep;66(9):728-735.
7. Shkembi AT, Le AB*, **Neitzel RL**. Associations between poorer mental health with work-related effort, reward, and overcommitment among a sample of formal US solid waste workers. *Saf Health Work* 2023 Mar;14(1):93-99. doi: 10.1016/j.shaw.2023.01.004. Epub 2023 Feb 4.
8. Le A*, Shkembi AT, Tadee AT, Sturgis A, Gibbs S **Neitzel RL**. Characterization of perceived biohazard exposures and exposure control resources among a sample of formal US solid waste workers: A pilot study. *J Occup Environ Hyg*. DOI: 10.1080/15459624.2023.2179060 [epub before print].
9. Shkembi AT, Smith L, **Neitzel RL***. Linking environmental injustices in Detroit, MI to institutional racial segregation through historical federal redlining. *J Expo Sci Environ Epidemiol*. 2022 Dec 21. doi: 10.1038/s41370-022-00512-y. Online ahead of print.
10. Shkembi AT, Smith L, **Neitzel RL***. Evaluating occupational noise exposure as a contributor to injury risk among miners. *Ann Work Expo Health* 2022 doi: 10.1093/annweh/wxac059 [epub ahead of print].
11. Roberts B*, Jacobs N, Kardous C, Reamer H, Mathis C, Gaffney S, **Neitzel RL**. Evaluation of a Wearable Consumer Noise Measurement Device in a Laboratory Setting. *J Acoust Soc Am* 2022 152, 547.
12. McCullaugh M, Valentin-Cortés MT, D'Souza C, Batterman SA, **Neitzel R**, Zhen H, O'Neill MS. Integrating interprofessional collaborative practice into occupational and environmental health and

- safety education: results of a feasibility study. *J Occup Environ Med* 2022, 84(8).
13. Roberts BJ, Shkembi AT, Smith LM, **Neitzel RL***. Beware the Grizzlyman: A Comparison of Job and Industry-Based Noise Exposure Estimates Using Manual Coding and the NIOSH NIOCCS Machine Learning Algorithm. *J Occup Environ Hyg* 2022, 19(7) 437-447.
 14. Le AB*, Shkembi AT, Sturgis AC, Tadee AT, Gibbs SG, **Neitzel RL**. Effort-reward imbalance among a sample of formal US solid waste workers: A pilot study. *Int J Environ Res Pub Health* 2022 19, 6791. <https://doi.org/10.3390/ijerph19116791>
 15. Zhang X, Wu J, Smith LM, Li, Yancey O, Franzblau S, Dvonch JT, Xi C*, **Neitzel RL***. Monitoring SARS-CoV-2 in Air and on Surfaces and Estimation of Infection Risk in Public Buildings on a University Campus. *J Exp Sci Environ Epidem* 2022 Apr 27;1-8. doi: 10.1038/s41370-022-00442-9 [online ahead of print]
 16. Shkembi AT, Smith L, Le A, **Neitzel RL***. Noise exposure and mental workload: evaluating the role of multiple noise exposure metrics using BKMR modeling among surface miners in the US Midwest. *Appl Ergonom* 103, 103772. <https://doi.org/10.1016/j.apergo.2022.103772>.
 17. Shkembi AT, **Neitzel RL***. Noise as a risk factor for COVID-19 transmission: Comment on Zhang: “Estimation of differential occupational risk of COVID-19 by comparing risk factors with case data by occupational group.” *Am J Ind Med* 2022 [epub ahead of print]. DOI: 10.1002/ajim.23349
 18. **Neitzel RL***, Smith L, Wang L, Green G, Block J, Carchia M Mazur K, DePalma G, Azimi R, Villanueva B. Toward a better understanding of non-occupational sound exposures and associated health impacts: Methods of the Apple Hearing Study. *J Acoust Soc Am* 2022, <https://doi.org/10.1121/10.0009620>, [epub ahead of print].
 19. Arain ALT, **Neitzel RL**, Nambunmee K, Hischier R, Jindaphong S, Jolliet O, Austin-Brenneman J. Material flow, economic and environmental life cycle performances of informal electronic waste recycling in a Thai community. *Res Conserv Recycl* 2022; 180:106129.
 20. Shkembi AT, Smith LM, **Neitzel RL***. Retrospective assessment of the impact of noise exposure on non-fatal and fatal injury rates among miners in the US from 1983-2014. *Am J Ind Med* 2022 65: 30-40. doi: 10.1002/ajim.23305 doi: 10.5696/2156-9614-11.31.210908.
 21. Shkembi AT, Smith LM, Roberts B, **Neitzel RL***. Fraction of acute work-related injuries attributable to hazardous occupational noise across the US in 2019. *Occup Environ Med* 2021 Oct 25 2021. doi: 10.1136/oemed-2021-107906. Online ahead of print.
 22. Nambunmee K*, Lampang R, Kawiya T, **Neitzel RL**, Seeprasert P. Pesticide spraying and reduced cholinesterase activity in Lahu hill tribe farmers. *J Health Pollution* 2021; 11(31). doi: 10.5696/2156-9614-11.31.210908.
 23. Shkembi AT, Nambunmee K, Jindaphing S, Parra-Giordano D, Yohannessen K, Ruiz-Rudolph P, **Neitzel RL**, Aubrey Arain T. Work task association with lead urine and blood biomarker concentrations in informal electronic waste recyclers in Thailand and Chile. *Int J Environ Res Pub Health* 2021 Oct 9;18(20):10580. doi: 10.3390/ijerph182010580.
 24. Carlson KT, Basu, Fobil JN, **Neitzel RL*** Metal Exposures, Noise Exposures, and Audiometry from E-waste Workers in Agbogbloshie, Ghana. *Int J Environ Res Pub Health* 2021. 18, 9639. <https://doi.org/10.3390/ijerph18189639>
 25. Wang Z, **Neitzel RL**, Zheng W, Dezheng W, Xue X, Jiang G. Road safety problems of courier and take-out food delivery electric bike riders: a cross-sectional study in one municipality in China. *Traff Inj Prev* 2021; 22(7): 564–569. <https://doi.org/10.1080/15389588.2021.1895129>
 26. **Neitzel RL***, Andersson M, Lohman S, Torén K, Andersson E. Dust exposures in Swedish soft tissue paper mills. *Ann Work Environ Health* 2021. <https://doi.org/10.1093/annweh/wxab063>.
 27. Diong HT, **Neitzel RL**, Martin WH*. Spatial evaluation of environmental noise with the use of participatory sensing system in Singapore. *Noise Mapping* 2021; 8: 236-248. <https://doi.org/10.1515/noise-2021-0019>.
 28. Rabinowitz PM, Galusha D, Cantley L, Dixon-Ernst C, Ramirez V, **Neitzel RL**. Feasibility of a daily

- noise monitoring intervention for prevention of noise induced hearing loss. *Occup Environ Med*. Epub ahead of print: 4 July 2021. doi:10.1136/oemed-2020-107351.
29. Couliantianos MJ^T, Arezoomand M, Chou ST, Austin-Breneman J, Adhvaryu A, Nambunmee K, **Neitzel R**, Sienko K. Product representations in conjoint analysis in an LMIC setting: comparing attribute valuation when three-dimensional physical prototypes are shown versus two-dimensional renderings. *Development Eng* 2021; 6: 100063. <https://doi.org/10.1016/j.deveng.2021.100063>
 30. Gharib ST, Martin B, **Neitzel RL***. Pilot assessment of occupational safety and health of workers in an aircraft maintenance facility. *Saf Sci* 141 (2021) 105299, <https://doi.org/10.1016/j.ssci.2021.105299>
 31. Bellamo T^T, Prasad S, Abou-Hanna J, Talluru S, Xie Y, Wang L, Green G, **Neitzel RL***. Pilot Characterization of Noise exposure in Places of Worship. *Appl Acoust* September 2021; 180: 108114. <https://doi.org/10.1016/j.apacoust.2021.108114>.
 32. Forte CT, **Neitzel R**, Guytingco AT, Peraino N, Jindaphong S, Colacino R, Nambunmee K. Pesticide exposure and adverse health effects associated with farm work in Northern Thailand. *J Occup Health* 2021; 63:e12222. <https://doi.org/10.1002/1348-9585.12222>
 33. Ullman ET, Smith LM, McCullagh MC, **Neitzel RL***. Hearing loss as a predictor for hearing protection attenuation among miners. *Occup Environ Med* 2021 Apr 15; 78:371-376. <http://dx.doi.org/10.1136/oemed-2020-106838>
 34. Chou ST, Arezoomand M, Couliantianos MJ, Nambunmee K, **Neitzel RL**, Adhvaryu A, Austin-Breneman J*. The Stakeholder Agreement Metric (SAM): quantifying preference agreement between product stakeholders. *J Mech Design* Dec 2020 <https://doi.org/10.1115/1.4049315>. [epub ahead of print]
 35. Smith LM, Wang L, Mazur K, Carhcia M, DePalma G, Azimi R, Mravca S, **Neitzel RL***. Impacts of COVID-19-related social distancing measures on personal environmental sound exposures. *Environ Res Letters* 2020 15 104094. <https://iopscience.iop.org/article/10.1088/1748-9326/abb494/pdf>
 36. Eriksson HP, Söderberg M, **Neitzel RL**, Torén K, Andersson E. Cardiovascular mortality in a Swedish cohort of female industrial workers exposed to noise and shift work. *Int Arch Occup Environ Health* 2021 Feb;94(2):285-293. PMC7873009.
 37. Jacobs N*, Roberts B, Reamer H, McMenamy C, **Neitzel RL**, Gaffney, S. Noise Exposures in Different Community Settings Measured by Traditional Dosimeter and Smartphone App. *Appl Acoust.* 2020;167:107408.
 38. **Neitzel RL***, Sayler SK, Demond AH, d’Arcy H, Garabrant DH, Franzblau A. Measurement of Asbestos Emissions Associated with Demolition of Abandoned Residential Dwellings. *Sci Tot Environ.* 2020 Jun 20;722:137891. PMC7261207.
 39. Franzblau A, Demond AH, Sayler SK, D’Arcy H, **Neitzel RL***. Asbestos-Containing Materials in Abandoned Residential Dwellings in Detroit. *Sci Tot Environ* 2020 Apr 20;714:136580. PMC7060826.
 40. Torén K*, **Neitzel RL**, Sällsten G, Andersson E. Occupational exposure to soft paper dust and mortality. *Occup Environ Med* 2020 Aug;77(8):549-554. PMC7402447.
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Peer-Reviewed, In Press († denotes trainee, * denotes corresponding author)

Peer-Reviewed, Submitted († denotes trainee, * denotes corresponding author)

1. Carlson K†, Park SK, Basu N, **Neitzel RL***. Toxic and essential elements from newborn dried blood spots associated with abnormal hearing screening outcomes: a case-control study. Submitted to *Environ Res Letters* June 2023.

Edited books

1. Meinke DK, Berger E, Driscoll D, **Neitzel RL**, Bright K, editors, *The Noise Manual*, 6th edition. American Industrial Hygiene Association (2022).

Book chapters

1. Roberts B, Hager L, **Neitzel RL***. Chapter 7: Noise Measurement and Exposure Assessment. In *The Noise Manual*, 6th edition. American Industrial Hygiene Association (2022).
2. Rabinowitz PM, Cantley L, Swersey A, **Neitzel RL**. Chapter 15: Hearing Conservation Program Effectiveness. In *The Noise Manual*, 6th edition. American Industrial Hygiene Association (2022).
3. Fligor B*, Chasin M, **Neitzel RL**. Noise Exposure and Issues in Hearing Conservation. In *The Handbook of Clinical Audiology*, 7th ed. Wolters Kluwer (2014).

Invited manuscripts

1. **Neitzel R**, Hammer M, Swinburn T. Environmental and Occupational Noise Pollution in the US: How Bad is the Problem and What Can We Do About It? *Proceedings of the 11th International Congress on the Biological Effects of Noise* (Jun 2014), Nara, Japan.
2. **Neitzel R**. Construction noise strategies. *Occup Health Saf*, 71(6):72-6 (2005).

Technical Reports

1. Roberts B, **Neitzel R**. Noise exposure limit for children in recreational settings: review of available evidence. Monograph for the World Health Organization Make Listening Safe Campaign. Submitted February 10, 2018.
2. **Neitzel R**, Fligor B. Review: Determination of risk of noise-induced hearing loss due to recreational sound. Monograph for the World Health Organization Make Listening Safe Campaign. Submitted Dec 21, 2016.
3. **Neitzel R**. Approaches to urban noise surveillance in New York City. Report to New York City Department of Health and Mental Hygiene, Bureau of Environmental Surveillance and Policy. Submitted July 29, 2011.

TEACHING

New Courses Developed or Contributed to

1. UM Massively Open Online Course (MOOC) [Coursera Specialization](#) consisting of four courses: Fundamentals of environmental health; Key human environments and common exposures; Causes and impacts of climate change; Environmental justice and assessing human health risks. Sole instructor, specialization launched July 2021.
2. UM PUBHLTH 305, The Environment and Human Health, 4 credits, W2014, W2015, W 2024. Co-instructor (2014-2015), instructor (2023-present) developed course.
3. UM PUBHLTH 514-001, Public Health Sciences and the Environment (residential version), 2 credits, W2020, W2021, W2022, W2023, W2024. Sole instructor, developed course.
4. UM PUBHLTH 514-555, Public Health Sciences and the Environment (online version), 2 credits, W2020, W2021, W2022, W2023, W2024. Sole instructor, developed course.
5. UM EHS 500, Introduction to Environmental Health Sciences, 3 credits, F2012, F2013, F2014, F2015, F2016, F2017. Sole instructor, revamped course.
6. UM EHS 601, Exposure Science and Health, 3 credits, F2015, F2016. Co-instructor, developed course.
7. UM EHS 655, Human Exposure Analysis, 2 credits, W2013, W2015, W2017, W2018, W2020, W2022, W2024. Sole instructor, developed course.
8. UM EHS 658, Physical Hazards, 1-2 credits, F2012, F2013, F2015, F2016, F2017, F2018, F2019, F2020, F2021, F2022, F2024. Sole instructor, revamped course.
9. UM EHS 796, Current Issues in Exposure Science, 1 credit, W2012. Sole instructor, developed course.
10. UM EHS 796, Global Health and Electronic Waste Recycling, 1 credit, W2016, W2017, F2017. Sole instructor, developed course.
11. UW ENVH 457, Industrial and Environmental Noise, 3 credits, Sp2001, Sp2004, Sp2006. 50% instructor, revamped course.
12. UW ENVH 511, Introduction to Environmental Health, 3 credits, Fa1998, teaching assistant.

Continuing Education and Outreach

1. Lecturer, University of Washington (August 2020). Workplace Hearing Loss Prevention continuing education course.
2. Symposium Organizer. University of Michigan, University of Illinois-Chicago, and University of Cincinnati Education and Research Centers (March 2017). Pilot Project Research Training Program Regional Research Symposium, Ann Arbor MI.
3. Symposium Organizer. University of Michigan Center for Occupational Health and Safety Engineering (March 2016). Pilot Project Research Training Program Research Symposium, Ann Arbor MI.
4. Lecturer, Comprehensive Industrial Hygiene Review Course, University of Michigan. Bi-annually, 2014-present.
5. Course Director: Current Solutions to Workplace Noise Hazards, University of Washington DEOHS Continuing Education Program. May 2007
6. Member, Program Committee: National Hearing Conservation Association annual conference, 2004-2009.
7. Conference Co-Director: Cutting Edge Topics in Noise and Hearing Conservation. In conjunction with American Industrial Hygiene Conference and Exposition. May 2004.
8. Conference Co-Director: State of the Art Concepts in Noise and Hearing Loss. In conjunction with the Northwest Occupational Health Conference. October 2003.
9. Course Director: Focus on Safety Seminars: Hearing Conservation, University of Washington DEOHS Continuing Education Program. November 2003

10. Course Director: Current Issues in Construction Safety, University of Washington DEOHS Continuing Education Program. April 2002

Supervisor for Doctoral Dissertations

1. Jie He, Impacts of noise exposure on human health. PhD program, Environmental Health Sciences. Expected graduation 2028.
2. Abas Shkemi. Environmental and occupational injustices in the US. PhD program, Environmental Health Sciences. Expected graduation 2026.
3. Mousa Alsulais. Health and safety hazards among emergency medical services workers. PhD program, Environmental Health Sciences. Expected graduation 2026.
4. Anupon Tadee. Occupational health and safety risks in marginalized communities. PhD program, Environmental Health Sciences. Expected graduation 2025.
5. Xin Zhang. Wearable Sensor-based Observation of Noise Impact on Cardiovascular and Auditory Systems (SONICA). PhD program, Environmental Health Sciences. Expected graduation 2025.
6. Katrina Burns (co-supervisor). Occupational Safety in Academic Research Laboratories: Identifying Upstream Risk Factors. PhD program, Environmental Health Sciences. UM. Graduated 2020.
7. Aubrey Langeland. Environmental health impacts of informal electronic waste recycling. PhD program, Environmental Health Sciences. UM. Graduated 2019.
8. Krystin Carlson. Heavy metals exposure, nutritional status, and risk of and hearing loss. PhD program, Toxicology. UM. Graduated 2019.
9. Benjamin Roberts. Noise exposures in the United States and Canada. PhD program, Environmental Health Sciences. UM. Graduated 2017.

Committee Member for Doctoral Dissertations - Domestic

1. Michael Simpson. OSHA Hearing Conservation Standards, Noise Exposures, and Non-Auditory Worker Injury. Valdosta State University. Expected graduation 2023.
2. Chanese Forte. Understanding pesticide exposure and bioactivity between farmworkers and non-farmworkers. UM. Expected graduation 2021.
3. Ziyin (Nancy) Lei. Single Particle Physical and Chemical Characterization of Atmospheric Aerosol Particles. UM. Expected graduation 2021.
4. Chad Milano, Exposure apportionment of ambient air pollutants among vulnerable urban residents. UM. Graduated 2018.
5. Weiye Wang. Associations of Environmental Risk Factors with Age-Related Cataract and Glaucoma. Cognate. UM. Graduated 2018.
6. James Couch. Evaluation of a Novel Ventilation Design for Increasing Capture Velocities in Traditional and Portable Local Exhaust Ventilation. UM. Graduated 2016.
7. Kathryn Demanelis. UM. Neonatal Heavy Metal Exposure, DNA Methylation, and Childhood Cancer Epidemiology. Graduated 2016.
8. Stephanie Phelps. Noise Exposure and Hearing Loss Among Firefighters. University of California, San Francisco. Graduated 2016.
9. Patrick Hardin. Sonic Landscapes. Cognate. UM. Graduated 2016.
10. Ryan Lewis. Exposure Science Issues Concerning 60-Hz Magnetic Fields. UM. Graduated 2015.
11. Mozgon Rajae. Mercury Exposure, Cardiovascular Health, and Pulmonary Function in a Small-scale Gold Mining Community in Northeast Ghana. UM. Graduated 2015.

Opponent for Doctoral Dissertations – International

1. Zara Ann Stokholm. Occupational Noise Exposure, Physiological Stress, and Cardiovascular Health. Aarhus University, Denmark. Graduated 2014.

Supervisor for Masters of Science Theses

1. Chigozie Agwuncha. Echoes of Risk: Predictive Modeling of Noise-Induced Hearing Loss Risk Factors Using Apple Hearing Study Data. Expected graduation 2025
2. Abas Shkembli. Environmental and occupational injustices associated with residential segregation via historical redlining. UM. Graduated April 2023.
3. Jie He. Utility of different noise metrics in predicting occupational injury risk. UM. Graduated April 2023.
4. Sandar Bregg. Exploring Kurtosis as a Noise Metric to Predict the Occurrence of Injury & Near Miss Events in Miners. UM. Graduated 2020.
5. Sarah Gharib. Assessment of Occupational Safety and Health in Aircraft Maintenance. UM. Graduated 2020.
6. Elon Ullman. Hearing Loss as a Predictor for Hearing Protection Attenuation Among Miners. UM. Graduated 2020.
7. Katherine Thompson. (Co-supervisor). Reducing air pollution intervention: Detroit study. UM. Graduated 2016.
8. Stephanie Sayler. Noise and silica exposures among stone quarrying workers in Thailand. UM. Graduated 2016.
9. Katarina May Kimpel. Vestibulotoxicity of lead and cadmium. UM. Graduated 2015.
10. Allyson Green. The relationship between noise and stress in an artisanal mining community in Ghana. UM. Graduated May 2014.

Committee Member for Masters of Science Theses

1. Sofia Schlezak. Study of interventions to reduce chemical exposures in the informal e-waste management sector: a case study in Buenos Aires, Argentina. Colorado School of Mines. Graduated April 2023.
2. Tuo Liu. Thesis study based on Invisible Fishers. UM. Graduated 2020.
3. LuYi Li. Heavy metal exposure from consumer products. UM. Graduated 2018.
4. Marc Beaudreau. Determinants of exposure to hexavalent chromium during aircraft spray painting operations. UW. Graduated 2016.
5. Jeffrey Walls. Characterization of work practices and ventilation techniques in shipyard confined space welding. UW. Graduated 2012.
6. Allison Crollard. Development, implementation and evaluation of a training intervention for a dual-lingual health and safety committee. UW. Graduated 2011.
7. Jennifer Young. Hearing protection device use among construction workers. UW. Graduated 2006.
8. Bryan Berna. Occupational noise exposures aboard catcher processors in the Pacific Ocean and Bering Sea. UW. Graduated 2005.
9. Tom Olenchock. Cross-shift changes in otoacoustic emissions in relation to occupational noise exposure. UW. Graduated 2003.
10. Nicole Adrienne Irby. An assessment of noise frequency spectra associated with selected construction tasks. UW. Graduated 2002.
11. John Olson. Non-occupational exposure to noise among construction apprentices. UW. Graduated 2002.
12. Carolyn Reeb Whitaker. Accuracy of construction worker recall of tasks for epidemiological exposure assessment to noise. UW. Graduated 2001.
13. Kyle Ren. Noise exposure to electricians in the construction industry. UW. Graduated 1999.

Committee Member of Bachelor's Thesis

1. Diong Huey Ting. Sound exposure levels in non-occupational outdoor settings in Singapore. National University of Singapore. Graduated 2017.

SERVICE

University/local

1. Member, School of Public Health Executive Committee, 2022-2024
2. Director, UM Center for Occupational Health and Safety Engineering, 2022-present
3. Director, UM Industrial Hygiene Masters of Public Health and Masters of Science degree programs, 2021-present.
4. Member of UM Provost's Working Group on Campus Reentry, developed risk mitigation strategies for campus spaces, unit and departmental reopening requirements, and faculty, staff, and student reentry procedures, 2020.
5. Member of UM School of Public Health COVID-19 Task Force for the Governor's Michigan Economic Recovery Committee, developed risk scoring and risk mitigation strategy to restart economic activity in Michigan, 2020.
6. Director, UM School of Public Health Certificate in Global Public Health, 2020-present
7. Faculty consultant to UM Associate Vice President for Facilities and Operations for environmental health issues associated with two large, multi-million dollar UM campus capital projects (Dean Road Transportation Facility and Central Power Plant expansion), 2017-2020
8. Member, UM President's Advisory Committee on Labor Standards and Human Rights, 2017-2020
9. Member, EHS assistant professor faculty search committee, 2019-2020
10. Member, Graham Sustainability Institute director search committee, 2018
11. Director, Pilot Project Research Training program, UM Center for Occupational Health and Safety Engineering, 2013-2020
12. Director, UM School of Public Health Certificate in Risk Science and Human Health, 2011-2020
13. Director, Environmental Health Promotion and Policy Masters of Public Health degree program, 2017-present
14. UM Environmental Toxicology and Epidemiology Training Grant Executive Committee, 2014-present
15. UM Department of Environmental Health Sciences Executive Committee, 2013-2015, 2019-2021
16. UM Department of Environmental Health Sciences Professional Degree Program Committee Chair, 2016-2020
17. UM Department of Environmental Health Sciences Professional Degree Program Committee Co-Chair, 2013-2015
18. UM Department of Environmental Health Sciences Admissions Committee Chair, 2015-2016
19. Grant reviewer, University of Michigan Office of Global Public Health internship program, 2017-present
20. Grant reviewer, University of Michigan Graham Sustainability Institute Emerging Opportunities program, 2017-present.
21. Grant reviewer, Environmental Health Sciences Center for Urban Responses to Environmental Stressors (CURES) at Wayne State University, 2020 and 2015
22. Grant reviewer, Pacific Northwest Agricultural Safety and Health Center at the University of Washington, 2013

23. UM Risk Science Center Executive Committee, 2013-2015
24. UM Department of Environmental Health Sciences Admissions Committee, 2011-2013
25. UM Center for Occupational Health and Safety Engineering, Visiting Partners Program: mentor for Sergio Caporali (2013-2014), Chad Positano (2011-2012).
26. Associated General Contractors of Washington. Annual Construction Safety Competition Judge, 1999, 2000.

National/international

1. Reviewer, American Academy of Pediatrics Policy Statement: Preventing Excessive Noise Exposure in Infants, Children, and Adolescents. October 21 2023
2. Member, Safety and Occupational Health Study Section, National Institute for Occupational Safety and Health, 2022-present.
3. Co-Chair, Health and Environmental Science Institute (HESI) Collaboration on Ototoxicity Risk Assessment (CORA), 2021-2023.
4. International Advisory Board member, *Annals of Work Exposures and Health*, 2016-present
5. Technical working group member, World Health Organization, WHO Global standard for safe listening venues & events, 2022-24.
6. Scientific Advisor, Facilities Guidelines Institute Acoustics Committee for FGI 2022, 2019.
7. Technical working group member, World Health Organization, WHO-ITU H.870 Global Standard for safe listening devices and systems, 2019-2022.
8. Working group member, American National Standards Institute/American Society of Safety Engineers standard A10.46-2020, "Hearing Loss Prevention for Construction and Demolition Workers," 2018-2019.
9. Consultant, World Health Organization Make Listening Safe Initiative, 2015-present.
10. American Conference of Governmental Industrial Hygienists Threshold Limit Values – Physical Agents Committee, member, 2014-present
 Chair, 2019-present
 Vice Chair, 2015-2019
11. Grant review panel member, Kentucky SBIR-STTR funding program, 2016
12. Grant review panel member, NY and NJ Education and Research Center Pilot Project Research Training Grant program, 2016
13. Health Advisory Panel Member, Quiet Communities Foundation, 2016-present
14. Grant review panel member, Alpha Foundation for the Improvement of Mine Safety and Health, 2014
15. American Industrial Hygiene Association Noise Committee, 2002 – present
16. National Institute for Occupational Safety and Health/National Hearing Conservation Association Safe-in-Sound™ Award expert panel member, 2011-2023
17. 85-3 Campaign to increase awareness of best practices in hearing conservation, 2011-present
18. National Hearing Conservation Association, member, 2000-present
 Immediate Past President, 2010-2011
 President, 2009-2010
 President-Elect, 2008 – 2009
 Director of Communications, 2003 – 2006
 Treasurer, 2002-2003

19. Occupational Safety and Health Administration “Noise Control and Buy Quiet in Construction” Workgroup, 2013-present.
20. Testimony delivered to the US Occupational Safety and Health Administration on 11/3/2011 concerning proposed definition of feasibility for noise control enforcement, 29 CFR 1910.95.
21. Testimony delivered to the US Occupational Safety and Health Administration on 7/15/2002 concerning proposed amendments to the construction hearing conservation regulation, 29 CFR 1926.52.
22. Grant review panel member, Federal Emergency Management Administration Assistance to Firefighters Grants, Research and Development program, January 2008
23. Working group, American National Standards Institute/American Society of Safety Engineers standard A10.46-2007, “Hearing Loss Prevention for Construction and Demolition Workers,” 2004-2007.

PROFESSIONAL ACTIVITIES

Manuscript reviewer

Acoustics Australia

American Industrial Hygiene Association Journal

American Journal of Industrial Medicine

American Journal of Preventive Medicine

Annals of Work Environment and Health

Applied Acoustics

Applied Occupational and Environmental Hygiene

Automation in Construction

Chemosphere

Construction Technologies and Engineering

Ear and Hearing

Environment International

Environmental Health Insights

Environmental Health Perspectives

Environmental Science and Technology

European Archives of Oto-Rhino-Laryngology and Head & Neck

Frontiers in Epidemiology

International Journal of Audiology

International Journal of Occupational and Environmental Health

Journal of Civil Engineering and Construction Technology

Journal of Environmental Planning and Management

Journal of Exposure Science and Environmental Epidemiology

Journal of Occupational and Environmental Hygiene

Journal of the Acoustical Society of America

Journal of Urban Health

Occupational and Environmental Medicine

Seminars in Hearing

The Extractive Industries and Society

Memberships

Acoustical Society of America, 2005 – 2011

American Conference of Governmental Industrial Hygienists, 2005 – present

American Industrial Hygiene Association, 1999 – present

British Occupational Hygiene Society, 2019 – present

International Society of Environmental Epidemiology, 2014 – 2017

International Society of Exposure Science, 2011 – 2016

Michigan Industrial Hygiene Society, 2011 – present

Midwest Injury Prevention Alliance, 2013 – present

National Hearing Conservation Association, 2001 – present

Pacific Northwest Section of the American Industrial Hygiene Association, 2000 – 2011

UM Environmental Health Sciences Core Center, 2013-present

UM Injury Center, 2012-present

UM Kresge Hearing Research Center, 2017-present

UW Department of Environmental and Occupational Health Sciences Student Advisory Council, 1997-1998 and 2006-2008

UW Industrial Hygiene Student Association President, 1997-1998

SELECT EXTERNAL PRESENTATIONS

Invited

1. **Neitzel RL** (October 2024) Washington, DC. Urban Noise – Impact and Control workshop hosted by the Technology for a Quieter America program of the National Academy of Engineering. “Assessing and addressing occupational and environmental noise in America.”
2. **Neitzel RL** (October 2024) Atlanta, GA. Underwriters Laboratories 2024 Annual Research Symposium. “Assessing and addressing occupational and environmental noise in America.”
3. **Neitzel RL** (October 2023) Washington, DC. Occupational Noise Exposure Risks and Controls workshop hosted by the Technology for a Quieter America program of the National Academy of Engineering. “Environmental Noise Pollution in the United States: Developing an Effective Public Health Response.”
4. **Neitzel RL** (Sept 2024) Atlanta, GA. Underwriters Laboratories Research Institutes Annual Research Symposium. “Informal electronic waste recycling exposures and impacts.”
5. **Neitzel RL** (Aug 2024) Cincinnati, OH. National Aeronautics and Space Administration (NASA) annual Occupational Health Annual Update Meeting. “Hearing loss prevention best practices.”
6. **Neitzel RL** (Aug 2024) Cincinnati, OH. National Aeronautics and Space Administration (NASA) annual Occupational Health Annual Update Meeting. “Association between Occupational Noise Exposure and Injury Risk.”
7. **Neitzel RL** (October 2023) Washington, DC. Occupational Noise Exposure Risks and Controls workshop hosted by the Technology for a Quieter America program of the National Academy of Engineering. “Keynote: The State of Occupational Noise Exposure in the US.”

8. **Neitzel RL** (October 2023) Washington, DC. Occupational Noise Exposure Risks and Controls workshop hosted by the Technology for a Quieter America program of the National Academy of Engineering. "Occupational Noise and Injury Risk."
9. **Neitzel RL** (August 2023) Dallas, TX. Inaugural International Hearing Protector Fit Testing Symposium. "Keynote: What Can Hearing Protector Fit Testing Do For Me?"
10. **Neitzel RL** (March 2023) Portland, OR. Oregon Governor's Occupational Safety and Health Conference. "Introduction to Audible Sound."
11. **Neitzel RL** (March 2023) Portland, OR. Oregon Governor's Occupational Safety and Health Conference. "Hearing Loss: Not Just Noise."
12. **Neitzel RL** (March 2023) Portland, OR. Oregon Governor's Occupational Safety and Health Conference. "Hearing Loss Prevention: Programs and Controls."
13. **Neitzel, RL** (Jan 2022) online. Johns Hopkins University Cochlear Hearing Center. "The Apple Hearing Study: New Approaches to Evaluating the Relationship Between Sound and Health."
14. **Neitzel, RL** (Jan 2022) online. University of British Columbia School of Population and Public Health Seminar. "Finding meaning in the noise: the Apple Hearing Study."
15. **Neitzel, RL** (Oct 2021) online. United Nations University and UNIDO. Electronic Waste Academy for Managers, EWAM 21. "Identifying comprehensive solutions to electronic waste recycling."
16. **Neitzel, RL** (June 2021) online. Virtual Conference on Computational Audiology 2021. "Big Data from the Apple Hearing Study."
17. **Neitzel, RL** (June 2021) online. Acoustical Society of America, Acoustics in Focus conference "Improving our understanding on non-occupational noise-induced hearing loss."
18. **Neitzel, RL** (April 2021) online. Asia-Pacific Economic Cooperation Council. "Recommendations and considerations for a recreational noise exposure limit."
19. **Neitzel RL**. (April 2021) online. American Conference of Governmental Industrial Hygienists. "Updates to the 2021 Threshold Limit Values."
20. **Neitzel, RL**. (March 2021) online. Apple, Inc. Workshop on Machine Learning for Health. "University of Michigan/Apple Hearing Study."
21. **Neitzel, RL**. (February 2021) Oregon State University. "Occupational Hazards Among Electronic Waste Recycling Workers in Northeastern Thailand."
22. **Neitzel, RL**. (December 2020). Online. Acoustical Society of America, Acoustics Virtually Everywhere conference. "Larry H. Royster Memorial Session."
23. **Neitzel, RL**. (May 2019) Khon Kaen, Thailand. Occupation & Environment: A Link to Health Symposium. "Occupational Hazards Among Electronic Waste Recycling Workers in Northeastern Thailand."
24. **Neitzel, RL**. (April 2019) Grand Rapids, MI. Michigan Safety Conference. "Current Issues in Occupational Noise."
25. **Neitzel, RL**. 2017 Callier Prize Conference (Apr 2017), Dallas, TX. "The Public Health Burden of Noise Exposure in America."
26. **Neitzel, RL**. World Health Organization Consultation on Making Listening Safe (Mar 2017), Geneva, Switzerland. "Determination of risk of sound-induced hearing loss."
27. **Neitzel, RL**. Michigan Industrial Hygiene Society Mini-Conference (Sept 2016), Troy, MI. "Global occupational health research at the University of Michigan."
28. **Neitzel, RL**. Gasaway Lecture, National Hearing Conservation Association Conference (Feb 2016), San Diego, CA. "Hearing Loss Prevention: There has to Be a Better Way, Right?"
29. Hammer M, **Neitzel, RL**. Spring 2015 Meeting of the Acoustical Society of America (May 2015). Pittsburgh, PA. "Assessing hazardous noise pollution in the United States."

30. **Neitzel, RL.** 11th International Congress on the Biological Effects of Noise (Jun 2014), Nara, Japan. “Environmental and Occupational Noise Pollution in the US: How Bad is the Problem and What Can We Do About It?”
31. **Neitzel, RL.** Aarhus University (Feb 2014) Aarhus, Denmark. Bernardino Ramazzini lecture: “Assessment of occupational noise exposure in epidemiological studies.”
32. **Neitzel, RL.** Innovations in Noise Induced Hearing Loss and Tinnitus Prevention in Kids conference (Oct 2013), St Paul, MN. “Give me a break: consequences of life in a noisy society.”
33. **Neitzel, RL.** AudiologyNow! Conference (March 2012), Boston, MA. “Recreational noise and risk of hearing loss.”
34. **Neitzel, RL.** National Hearing Conservation Association conference (Feb 2012), New Orleans, LA. “The 85-3 Campaign.”
35. **Neitzel, RL.** American Industrial Hygiene Conference and Exposition (May 2011), Portland, OR. “Accounting for temporal variability in exposure.”
36. **Neitzel, RL.** NIOSH Worklife Conference (Aug 2007), Bethesda, MD. “Noise exposures at work and play.”
37. **Neitzel, RL.** 3rd International Occupational Health and Audiology Conference (June 2007), Sao Paulo, Brazil. “Challenges to the use of hearing protection in US industry.”
38. **Neitzel, RL.** 3rd International Occupational Health and Audiology Conference (June 2007), Sao Paulo, Brazil. “Non-Occupational noise exposure and risk of hearing loss.”
39. **Neitzel RL,** Somers S, Seixas N. Acoustical Society of America conference (Nov 2005), Honolulu, HI. “Variability of field-based hearing protection device attenuation measurements.”
40. **Neitzel RL.** American College of Occupational and Environmental Medicine conference (Nov 2002), Seattle, WA. “Hazards of Forestry Work.”
41. **Neitzel RL.** Oregon Governor’s Occupational Safety and Health Conference (March 2001), Portland, OR. “Task-Based Noise Exposure Assessment.”

Submitted

1. **Neitzel RL** (September 2022) Athens, GA. International Society of Exposure Science annual conference. “Assessing injury risk associated with occupational noise exposure among miners.”
2. **Neitzel RL** (March 2022) online. National Hearing Conservation Association Conference. “2022 update on the Apple Hearing Study.”
3. **Neitzel RL** (June 2021) online. International Conference on the Biological Effects of Noise. “Exploring the associations between hearing loss, hearing protection use, noise exposures, and injuries among mining workers.”
4. **Neitzel RL** (April 2021) online. American Academy of Audiology. “What do nearly 100 million hours of Apple Hearing Study sound measurements tell us?”
5. **Neitzel RL.** (Feb 2021) online. National Hearing Conservation Association Conference. “The association between hearing loss and hearing protector attenuation among miners.”
6. **Neitzel RL.** (Jul 2020) online. American Conference of Governmental Industrial Hygienists Summer Series. “Understanding and Addressing Community Noise.”
7. **Neitzel RL.** (Feb 2020) Destin, FL. National Hearing Conservation Association Conference. “University of Michigan/Apple Hearing Study.”
8. **Neitzel RL.** (Feb 2019) Dallas, TX. National Hearing Conservation Association Conference. “Systematic Reviews of Health Outcomes Associated with Noise Exposure in Humans.”
9. **Neitzel RL.** (Dec 2018) New Orleans, LA. Society for Risk Analysis. “Global Risk Transfer Via Informal Electronic Waste Recycling.”

10. **Neitzel RL.** (Oct 2018) Santa Clara, CA. Responsible Business Alliance. “Creating Shared Value and Efficiencies in E-Waste Processing.”
11. **Neitzel RL.** (May 2018) Seattle, WA. American Industrial Hygiene Conference and Exposition. “Costs and Effectiveness of Hearing Conservation Programs.”
12. **Neitzel RL.** (Feb 2018). Orlando, FL. National Hearing Conservation Association Conference. “Hearing Conservation Program Costs and Effectiveness.”
13. **Neitzel RL.** (Jan 2018). NASA working group on occupational health and safety. “Emerging issues in occupational noise exposure.”
14. **Neitzel RL.** (June 2017) Zürich, Switzerland. 12th International Congress on the Biological Effects of Noise. “Development of a Job Exposure Matrix for Occupational Noise in the US.”
15. **Neitzel RL.** (June 2017) Seattle, WA. American Industrial Hygiene Conference and Exposition. “Electronic waste recycling exposures in Thailand.”
16. **Neitzel RL,** Rabinowitz P (Feb 2017) San Antonio, TX. National Hearing Conservation Association conference. “A Mixed-Methods Assessment of Hearing Conservation Program Effectiveness.”
17. **Neitzel RL.** (May 2016) Baltimore, MD. American Industrial Hygiene Conference and Exposition. “Development and Translation of a Job Exposure Matrix for Occupational Noise in the US and Canada.”
18. **Neitzel RL,** Sayler S, Svensson E, Johnson A-C (Mar 2014) Las Vegas NV. National Hearing Conservation Association conference. "Noise Exposures in Sweden."
19. **Neitzel RL.** Occupational Safety and Health Administration (OSHA) nationwide webinar for compliance and consultation officers (Nov 2013). “Noise hazards in the workplace.”
20. **Neitzel RL.** National Center for Rehabilitative Audiological Research, Portland Veterans’ Administration Medical Center (July 2013), Portland, OR. “Evaluating the scope and impact of noise exposure in America.”
21. **Neitzel RL.** National Hearing Conservation Association conference (Feb 2013), Tampa, FL. “Can you hear me now? Assessing temporal trends in noise exposure.”
22. **Neitzel RL.** Karolinska Institute (Aug 2012), Stockholm, Sweden. “Holistic assessment of noise exposure in urban settings.”
23. **Neitzel RL.** University of Gavle (June 2012), Gavle, Sweden. “Improving noise exposure estimates through the use of hybrid assessment techniques.”
24. **Neitzel RL.** Sahlgrenska Academy (May 2012), Gothenburg, Sweden. “Assessment of occupational exposures by worker self-report.”
25. **Neitzel RL.** National Institute for Occupational Safety and Health Buy Quiet Workshop (Nov 2011). Cincinnati, OH. “Construction noise: why should we care?”
26. **Neitzel RL.** National Institute for Occupational Safety and Health National Occupational Injury Risk Symposium (Nov 2011). Morgantown, WV. “Comparison of an observational hazard assessment tool with traditional approaches.”
27. Provided input at "Stakeholder Meeting on Preventing Occupational Hearing Loss" hosted by Occupational Safety and Health Administration, Washington DC Nov 2 2011.
28. **Neitzel RL.** University of Washington Continuing Education Seminar (Nov 2010), Seattle, WA. “Welding and thermal cutting noise exposures: How high are they and can they be controlled?”
29. **Neitzel RL.** Columbia University Occupational Health and Safety Seminar (Oct 2010), New York, NY. “Is riding the subway making me deaf? Risk of hearing loss associated with mass transit use.”
30. **Neitzel RL,** Gershon R. International Conference on Urban Health (Oct 2010), New York, NY “Mass transit noise levels and rider characteristics in New York City.”

31. **Neitzel RL.** Karolinska Institute Seminar (Sept 2010), Stockholm, Sweden. “Understanding the risk of hearing loss from noise exposure at work and play.”
32. Kerr M.J., Hong O.S., **Neitzel RL** & Sataloff R.T. International Occupational Hygiene Association, 8th International Scientific Conference (Sept 2010), Rome, Italy. “Historical analysis of prevention efforts to reduce noise-induced hearing loss in the USA.”
33. **Neitzel RL,** Gershon R. National Hearing Conservation Association conference (Feb 2010), Orlando, FL “Mass transit noise levels and rider characteristics in New York City”
34. **Neitzel RL,** Sheppard L, Daniell W, Davies H, Seixas N. EuroNoise (Oct 2009), Edinburgh, Scotland. “Evaluation of three occupational noise exposure assessment techniques.”
35. **Neitzel RL,** Sheppard L, Daniell W, Davies H, Seixas N. Sixth International Conference on Innovations in Exposure Assessment (Aug 2009), Boston MA. “Comparison of three exposure estimates.”
36. **Neitzel RL.** National Hearing Conservation Association conference (Feb 2009), Atlanta GA. “Can subjective exposure information be used to improve occupational exposure estimates?”
37. **Neitzel RL,** Daniell W, Davies H, Sheppard L, Seixas N. Acoustics Week in Canada (Oct 2008), Vancouver, BC. “Subjective vs. quantitative estimation of occupational noise exposure.”
38. **Neitzel RL.** Region X Air Toxics Summit (Aug 2008), Boise, ID. “Biomarkers of woodsmoke exposure among wildland firefighters.”
39. Seixas N, Feeney P, Mills D, Folsom R, Sheppard L, **Neitzel RL,** Kujawa S. International Congress on the Biological Effects of Noise (July 2008), Mashantucket, CT. “Opportunities and challenges in longitudinal assessment of hearing parameters among construction workers.”
40. **Neitzel RL,** Meischke H, Daniell W, Somers S, Trabeau M, Seixas N. National Hearing Conservation Association conference (Feb 2008), Portland, OR. “Development and pilot test of a new hearing conservation training program for the construction industry.”
41. **Neitzel RL,** Meishke H, Sheppard L, Daniell W, Davies H, Seixas N. EPICOH (Oct 2007), Banff, Alberta, CA. “Subjective estimation of occupational noise exposure.”
42. **Neitzel RL.** NHCA/Manitoba AIHA Hearing Loss Prevention Conference (Oct 2007), Winnipeg, Manitoba, Canada. “Construction noise: how bad is it and what can we do about it?”
43. **Neitzel RL.** American Industrial Hygiene Conference and Exposition (June 2007), Philadelphia, PA. “Comparison of biomarkers for use in assessing woodsmoke exposure among wildland firefighters.”
44. **Neitzel RL,** Berna B, Seixas N. National Hearing Conservation Association conference (Feb 2007), Savannah GA. “Noise levels and hearing protection use aboard two large commercial fishing vessels.”
45. Ploger J, **Neitzel RL,** Johnson P. University of Washington/University of British Columbia Joint Conference on occupational Health (Jan 2007), Blaine, WA. “Measurement of whole body vibration in King County bus drivers.”
46. **Neitzel RL.** University of Washington/University of British Columbia Joint Conference on Occupational Health (Jan 2007), Blaine, WA. “Retrospective noise exposure assessment incorporating subjective measures.”
47. **Neitzel RL,** Meinke D. Noise-Induced Hearing Loss in Children at Work and Play conference (Aug 2006), Cincinnati, OH. “Noise exposure among children and young adults: what do we know, and what do we need to find out?”
48. Seixas N, **Neitzel RL,** Goldman B, Sheppard L. American Industrial Hygiene Conference and Exposition (May 2005), Anaheim. “Noise Metrics and Changes in Hearing Among Construction Worker Apprentices.”
49. Seixas NS, **Neitzel RL,** Sheppard L, Goldman B. X2004, Utrecht, Netherlands (June 2004). “Alternative exposure metrics for noise exposure among construction workers.”

50. **Neitzel RL**, Seixas N. National Hearing Conservation Association conference (Feb 2004), Seattle WA. “Noise and HPD Use in Construction Workers.”
51. **Neitzel RL**, Seixas N, Goldman B, Daniell W. National Hearing Conservation Association conference (Feb 2003), Dallas, TX. ““Non-Occupational Noise in Construction Workers: Should we care?””
52. Seixas NS, Sheppard L, **Neitzel RL**. X2002 – Exposure assessment in epidemiology and practice Conference. Goteborg, Sweden (July 2002). “Comparison of task-based and full-shift strategies for noise exposure assessment.”
53. **Neitzel RL**. American Industrial Hygiene Conference and Exposition (June 2002), San Diego, CA. “Construction Noise Control Efforts and Opportunities.”
54. **Neitzel RL**, Seixas N, Parker L, Norton S, Kujawa S. American Industrial Hygiene Conference and Exposition (2001), New Orleans, LA. “Baseline Hearing Levels and Otoacoustic Emissions in a Cohort of Construction Apprentices and Controls.”
55. **Neitzel RL**, Seixas N, Brower S, Thomas K, Sheppard L. American Industrial Hygiene Conference and Exposition (June 2001), New Orleans, LA. “Noise Exposure Assessment Methodology and Year One Results of a Four-Year Prospective Study of Noise-Induced Hearing Loss in Construction Apprentices.”
56. **Neitzel RL**, Ren K, Camp J, Yost M, Seixas N. National Hearing Conservation Association conference (Feb 2001), Raleigh, NC. “Occupational Noise Exposures in Five Construction Trades.”
57. **Neitzel RL**, Somers S, Yost M. Agricultural Health and Safety in a New Century conference (2000), Cooperstown, NY. “Occupational Vibration and Noise Exposures in Forestry Workers.”
58. **Neitzel RL**, Camp J, Yost M, Seixas N. American Industrial Hygiene Conference and Exposition (May 1999), Toronto, Canada. “Variability in Construction Noise Exposures Assessed Using 3 dB and 5 dB Exchange Rates.”

POSTERS

1. O’Reilly M, **Neitzel RL**. International Society of Environmental Epidemiology conference (August 2020), virtual conference. “Consumer Purchasing to Improve Environmental and Worker Health.”
2. Ullman E, Smith L, Neitzel R. **Neitzel RL**. National Hearing Conservation Association conference (Feb 2020), Destin, FL. “Predictors for Hearing Protection Attenuation Among Miners.”
3. Shkemi A, Austin-Breneman J, Adar S, Parthasarathy S, Joliet O, **Neitzel RL**. UM MCubed 2019 Symposium (November 2019), Ann Arbor, MI. “Enhancing Informal Electronic Waste Recycling Tools and Methods.”
4. Carlson, K, Basu N, Park S-K, **Neitzel RL**. Society of Toxicology annual conference (March 2019), Baltimore, MD. “A case-control study of newborn hearing outcomes and neonatal dried blood spot metals.”
5. Carlson K, **Neitzel RL**. UM Changing the Global E-waste Cycle seminar (April 2018), Ann Arbor, MI. “Noise and metal exposures in electronic waste workers from Ghana.”
6. Sayler S Austin-Breneman J, Adar S, Parthasarathy S, Joliet O, **Neitzel RL**. UM MCubed 2017 Symposium (November 2017), Ann Arbor, MI. “Public health and public policy approaches to electronic waste recycling.”
7. Carlson K, **Neitzel RL**. Society of Toxicology annual conference (March 2017), Baltimore, MD. “Hearing loss as an outcome of noise and metal exposures in electronic waste workers”
8. Langeland A, **Neitzel RL**. UM Environmental Health Sciences Symposium (March 2017), Ann Arbor, MI. “Heavy Metal Exposure Assessment in an E-waste Community in Kalasin, Thailand.”
9. Langeland A, **Neitzel RL**. UM Michigan Sustainability and Environment Conference (February 2017), Ann Arbor, MI. “Heavy Metals Distribution in Rice and Soil in an E-waste Community.”
10. Langeland, A, **Neitzel RL**. UM International Institute Fellowships Poster Session (November 2016), Ann Arbor, MI. “Heavy metal exposures from electronic waste recycling in a Thai community.”

11. Carlson K, **Neitzel RL**. International Conference on Information and Communication Technologies and Development (June 2016), Ann Arbor, MI. "Electronic waste worker health: studying complex problems in the real world."
12. Roberts B, **Neitzel RL**. American Industrial Hygiene Conference and Exposition (May 2016), Baltimore, MD. "Utilizing Smart Devices to Measure Intermittent Noise Exposure in the Workplace"
13. Sayler SK, Long RN, Nambunmee K, **Neitzel RL**. Center for Occupational Health and Safety Engineering symposium (Mar 2016), Ann Arbor, MI. "Predicting respirable silica exposure using noise among stone processing workers in Thailand."
- 14.
15. Roberts, B. **Neitzel, RL**. American Industrial Hygiene Conference and Exposition (June 2015), Salt Lake City, UT. "Using Commercially Available Smartphones to Measure Occupational Noise Exposure"
16. Andersson M, Andersson E, **Neitzel RL**. International Congress on Occupational Health (June 2015), Seoul, South Korea. "A comparison of area and personal dosimetry noise measurements in soft paper mills."
17. Carlson K, Schacht J, **Neitzel RL**. Society of Toxicology (March 2015), San Diego, CA. "Assessment of Ototoxicity due to Chronic Lead and Cadmium Exposure with and without Noise Exposure in CBA/CaJ Mice"
18. **Neitzel RL**, Sayler SK, Guire K, Bingham CR. American Public Health Association conference (Nov 2014), New Orleans, LA. "Use of a driving simulator to assess risk of bicycle-motor vehicle crashes."
19. **Neitzel RL**, Green A, Rajae M, Long R, Sayler S. International Society for Environmental Epidemiology conference (Aug 2014), Seattle, WA. "Pilot assessment of hazards and health effects in a small-scale artisanal gold mining community in Ghana."
20. **Neitzel RL**, Sayler SK, Guire K, Bingham CR. American Public Health Association conference (Nov 2014), New Orleans, LA. "Use of a driving simulator to assess risk of bicycle-motor vehicle crashes."
21. Green A, Jones A, **Neitzel RL**. National Hearing Conservation Association conference (Mar 2014), Las Vegas, NV. "Noise and stress in a small-scale gold-mining community of northeastern Ghana."
22. De Castro AB, Krenz J, **Neitzel RL**. Western Forum for Migrant and Community Health (Feb 2014), Seattle WA. "Agricultural Safety & Health Hazards among Hmong Farmers."
23. Carlson K, Perkins M, Basu N, Park S-K, **Neitzel RL**. Bloodspot Environmental Epidemiology Project Symposium (Oct 2013), Ann Arbor MI. "Hearing Loss and Prenatal Human Metals Exposures"
24. **Neitzel RL**, Sayler S, Bingham CR, Guire K. University of Michigan Injury Center Symposium (Sept 2013), Ann Arbor MI. "Pilot Evaluation of Risk Factors for Adverse Interactions between Drivers and Bicyclists."
25. McAlexander TP, **Neitzel RL**, Gershon RRM. International Society for Environmental Epidemiology 2013 Meeting (Aug 2013), Basel Switzerland. "Geographic and temporal variability in road/street noise levels in New York City."
26. Burton RM, Ramachandran G, **Neitzel RL**, Oberlin T, Logan P, Johnson C. American Industrial Hygiene Conference and Exposition (May 2013), Montreal, Canada. "Contributions of Non-Occupational Noise to Total Noise Exposures for Workers with Increased Occupational Noise Exposures and Risk of Hearing Loss."
27. Gershon RRM, Sherman M, Magda L, Riley H, McAlexander TP, **Neitzel RL**. American Public Health Association 2012 Meeting (Oct 2012), San Francisco CA. "Hearing Health and Mass Transit Ridership."
28. Crollard A, **Neitzel RL**, Dominguez C, Seixas N. National Institute for Occupational Safety and Health Occupational Health Disparities Conference (September 2011), Chicago, IL. "Disparities in health and safety experiences in a multicultural and multilingual high-hazard workforce."
29. **Neitzel, RL**. University of Michigan Risk Science Symposium (September 2011), Ann Arbor, MI. "Incorporating Emerging Technologies into Risk Science."

30. McAlexander T, **Neitzel RL**, Gershon RRM. American Public Health Association Conference (November 2010), Denver, CO. “Association Between Urban Street Noise and Neighborhood Crime: A Pilot Study.”
31. **Neitzel RL**, McAlexander T, Gershon RRM. International Conference on Urban Health (October 2010), New York, NY. “The New York City Urban Soundscape: A Pilot Study.”
32. Gershon RRM, Pearson JM, Akram M, Spitzer J, **Neitzel RL**, Sherman MF. American Industrial Hygiene Association Conference and Exposition (May 2010), Denver, CO. “Mass Transit Ridership Associated with Excessive Noise Exposure: Preliminary Data.”
33. Pearson JM, **Neitzel RL**, Magda LA, Spitzer J, Akram M, Rabinowitz P, Sherman MF, Gershon RRM. The International Conference on Urban Health (Oct 2009), Nairobi, Kenya. “Mass transit ridership and excessive noise exposure: Preliminary data.”
34. Gershon RM, **Neitzel RL**, Sherman M, Zeltser M, Samar S, Akram M, Spitzer J., American Public Health Association conference (November 2008), San Diego, CA. “Hearing Protection use in an Urban Population: Preliminary Data.”
35. Berger E, **Neitzel RL**. National Hearing Conservation Association conference (Feb 2006), Tampa, FL. “Compilation of Representative Sound Level Data for 1731 Noise Sources.”
36. Gershon R, **Neitzel RL**, Barrera M, Akram M. International Conference on Urban Health (Aug 2006), Amsterdam, the Netherlands. “Noise Levels In The NYC Subway System.”
37. Irby N, **Neitzel RL**, Seixas N, Johnson P, Yost M. National Hearing Conservation Association conference (May 2003), Dallas, TX. “Evaluation of the noise frequency spectra of common construction tasks.”