

PROMOTION RECOMMENDATION
The University of Michigan
School of Public Health
Department of Environmental Health Sciences

Richard L. Neitzel, assistant professor of environmental health sciences, Department of Environmental Health Sciences, School of Public Health, is recommended for promotion to associate professor of environmental health sciences, with tenure, Department of Environmental Health Sciences, School of Public Health.

Academic Degrees:

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

Professional Record:

2011-present	Assistant Professor, University of Michigan, Department of Environmental Health Sciences, Ann Arbor, MI
2000-2011	Research Scientist, University of Washington (UW), Department of Environmental and Occupational Health Sciences, Seattle, WA
2008-2011	Research Consultant, Columbia University, Department of Sociomedical Sciences, New York, NY
1998-2000	Research Industrial Hygienist, UW Department of Environmental and Occupational Health Sciences, Seattle, WA
1998	Research Consultant, United Brotherhood of Carpenters/National Institute for Occupational Safety and Health, Seattle, WA
1997-1998	Industrial Hygiene Intern Safety and Claims Management, Metro-King County, WA
1997-1998	Research Assistant, UW Department of Environmental Health, Seattle, WA

Summary of Evaluation:

Teaching: Professor Neitzel is an energetic and accomplished presence in the classroom, possessing a high level of ability and excellence in teaching. As an assistant professor, he accepted responsibility for teaching a variety of challenging courses, including our EHS 500 "Principles in Environmental Health" service course and PUBHLTH 305 "Human Health in the Environment," one of the few School of Public Health course offerings for undergraduates. The latter course was conceived, developed, and taught with Professor Laura Rozek but Professor Neitzel taught this course in its entirety in the 2014-2015 academic year.

In the courses he has developed and taught, Professor Neitzel has shown a high aptitude for effective teaching, and has consistently received very high student evaluation scores for course and instructor excellence. Professor Neitzel was instrumental in designing and teaching the all-new exposure sciences core course that serves as nucleus around which much of the rest of our

curriculum is being built. He is also engaged in developing another new course that will teach the much needed skills of computational and statistical approaches for specific application to the environmental health sciences. He has taught some of this content in a pilot offering and it was extremely well received. The new course will debut during the 2016-2017 academic year.

In addition to his normal didactic teaching load, Professor Neitzel has been instrumental in creating and directing a new certificate program (certificate in risk and human health) offered in the School of Public Health. This novel program attracts students from all across the UM campus and provides a framework in which they are able to tailor their coursework to adapt the integration of risk science into several very different curricula. Professor Neitzel demonstrates considerable potential to continue his emergence as one of the department's foremost educators.

Professor Neitzel has supervised and continues to supervise the work of a number of graduate students. He is currently chairing the doctoral committees of two Ph.D. students. He has served on the committees of at least five other Ph.D. students at Michigan and also serves on the committee of a doctoral student from a university in South Africa. Professor Neitzel currently works as the primary advisor to three Masters students and has participated in the training and supervision of at least ten others. With his recent funding success, he expects to add one to two additional Ph.D. student trainees over the next year to work on emerging projects.

Research: Since joining the department, Professor Neitzel has developed a novel and highly regarded research program focused on the assessment and control of occupational and community hazards that features a particular emphasis on noise and ototoxins. This body of work has received high praise from occupational practitioners, community advocates, and public health professionals for addressing critical needs regarding environmental safety and developing new methodologies that are being incorporated to assess and interpret environmental safety data.

The majority of his research activities and interests are interconnected and highly integrated under two general themes. First, he pursues studies to understand the relationships between noise exposures and their potential deleterious effects on hearing outcomes and cardiovascular disease. This work considers the potential interactions between noise and other environmental and occupational hazards such as ototoxic chemicals and workplace conditions. His second research theme is more general, but related, as it is focused on understanding the causation and prevention of occupational and environmental injuries. Much of the value of this research lies in its translational value and its applicability for use in creating evidence-based policy recommendations for improving health which can be implemented in domestic and global settings. What also sets Professor Neitzel's work apart from that of his peers is the development, integration, and evaluation of innovative exposure assessment methodologies that have the potential to identify exposures and conditions that will lead to emerging environmental and occupational health hazards.

Since his arrival at the University of Michigan in 2011, Professor Neitzel has authored or co-authored over 26 peer-reviewed scientific articles and one book chapter, representing a rate of 6.8 publications per year. These publications appear in high impact journals in his field of study including: *American Journal of Public Health*, *American Journal of Preventative Medicine*, *Environmental Health Perspectives*, and *Environmental Science and Technology*. He is first

author on eight of these publications and is the senior corresponding author on seven others, sharing authorship with his student trainees. This, added to the 29+ manuscripts published prior to his coming to Michigan round out an impressive resume.

Professor Neitzel has been successful in obtaining funding from various sources to support and advance his research work. He currently serves as the PI or co-PI on an R21 and two R01 grants from NIOSH that fund the majority of his research focused on noise and hearing loss. The remainder of his current funding comes from foundations, training grants, and his international work. In addition, he has at least five other applications pending, including three R01s and grants to other agencies that seek considerable additional resources.

Recent and Significant Publications:

Professor Neitzel follows the convention of encouraging his students, trainees and collaborators to be the first author on papers that report work that they did as graduate students and which was conducted as part of his research program. In each of the peer-reviewed published examples given, ^T denotes trainee and * denotes corresponding author. In each case, Professor Neitzel is the intellectual lead and senior author on each publication.

- Burns KN^T, Sun K, Fobil JN, Neitzel RL*. (2016) Heart rate, stress, and occupational noise exposure among electronic waste recycling workers. *Int J Environ Res Pub Health* 19;13(1). pii: E140. doi: 10.3390/ijerph13010140.
- Effiong U^T, Neitzel RL*. (2016) Assessing the Occupational and Public Health Impacts of Solar Radiation Management with Stratospheric Aerosols. *Environ Health* 19;15(1):7. doi: 10.1186/s12940-016-0089-0.
- Neitzel RL*, Saylor SK^T, Long R, Sun K, von Thaden, T. (2015) Injury risk and noise exposure in fire fighter training operations. *Annals Occup Hyg*. pii: mev088. [Epub ahead of print].
- Long R, Sun K, Neitzel RL*. (2015) Injury risk factors in a small-scale gold mining community in Ghana's Upper East Region. *Int J Environ Res Pub Health* 12, 8744-8761; doi:10.3390/ijerph120808744.
- McAlexander T^T, Gershon RRM, Neitzel RL*. (2015) Street-level noise in an urban setting: assessment and contribution to personal exposure. *Environ Health* 14(1):18. PMC4350859.
- Neitzel RL*, Galusha D, Dixon-Ernst C, Rabinowitz PM. (2014) Methods for evaluating temporal trends in noise exposure. *Int J Audiol* 53 Suppl 2:S76-83. PMC4067129.
- Neitzel RL*, Crollard A, Dominguez C, Stover B, Seixas NS. (2013) A mixed-methods evaluation of health and safety hazards at a scrap metal recycling facility. *Safety Science* 51: 432-440.
- Lewis R^T, Gershon RRM, Neitzel RL*. (2013) Estimation of permanent noise-induced hearing loss in an urban setting. *Env Sci & Tech* 47(12):6393-9. PMC4336188.

Service: Professor Neitzel has been an active member of his community within the department and university, as well as contributing additional significant service in national and international organizations. Specifically, he has served on the departmental executive committee, professional degree program committee, and admissions committee (which he currently chairs). He has been a highly responsive and responsible committee member, taking a lead on key activities as needed to ensure the success of the department. Professor Neitzel has served as the director, UM School

of Public Health Certificate in Risk Science and Human Health, the director, Pilot Research Program, UM Center for Occupational Health and Safety Engineering, and as a mentor, COHSE visiting Partners Program.

On a national level, Professor Neitzel currently serves as a member of the Midwest Injury Prevention Alliance, the International Society of Environmental Epidemiology, the American Conference of Governmental Industrial Hygienists, American Industrial Hygiene Association, and the Michigan Industrial Hygiene Society. He also currently serves on the International Society of Exposure Science, and the National Hearing Conservation Association.

External Reviewers:

Reviewer A: “Dr. Neitzel has established himself as a leading national expert on noise and human health. His work has already been noticed both nationally and internationally...By [my institution’s] standards, it is fair to say that the promotion of Dr. Neitzel would be assured.”

Reviewer B: “Overall, the quantity and quality of Dr. Neitzel’s research is excellent. I enthusiastically endorse his promotion and tenure.”

Reviewer C: “He is publishing in a very good range of journals, producing a very good number of both first and last authored papers and involving trainees...he has managed to secure a very healthy level of funding from a variety of sources, including RO1s. Not only is his research extremely strong, his record on service and teaching are both also great.”

Reviewer D: “.....Professor Neitzel is a highly accomplished and nationally recognized public health professional. He is clear about his teaching philosophy which is a balance of competency-based materials and experiential learning through activities and research. [His] publication record while in-rank as an Assistant Professor is exceptional.”

Reviewer E: “Dr. Neitzel has a very high profile as a researcher and ranks among the leaders in our field not only in the USA but also at the international level.”

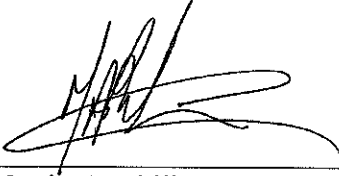
Reviewer F: “...Dr. Neitzel has achieved national recognition as an expert in his field of science as evidenced by his service on the national scale, the large number of journals for which he has served as a reviewer, and the superior quality of his published works in top-tier journals. I believe [he] is absolutely deserving of promotion to Associate Professor with tenure.”

Reviewer G: “... is well above others in his peer group who are working on noise and injury. Professor Neitzel has achieved national recognition in the field of noise and injury exposure assessment research.”

Reviewer H: “He has been productive in the quantity and quality of his research publications...His work has shown a clear focus that has led to him being recognized as a national or international leader in the area of occupational noise exposure...Dr. Neitzel has a very strong promotion package in all the relevant areas.”

Summary of Recommendation:

Professor Neitzel is an outstanding researcher and a dedicated and creative teacher working in a scientific and academic discipline that is at the forefront of improving human health and safety. His productivity has provided research and training opportunities for numerous students and research trainees, as well as for peers and collaborators. I am pleased to recommend Richard L. Neitzel for promotion to associate professor of environmental health sciences, with tenure, Department of Environmental Health Sciences, School of Public Health.

A handwritten signature in black ink, appearing to read 'M. Philbert', written over a horizontal line.

Martin A. Philbert
Dean, School of Public Health

May 2016