

Feasibility Assessment of Veteran Health Effects of Manhattan Project (1942-1947) Related Waste

Committee

Linda A. McCauley

Chair

Linda A. McCauley, PhD, RN, FAAN, FRCN is Professor and Dean of Emory University's Nell Hodgson Woodruff School of Nursing. Dean McCauley has special knowledge in the design of epidemiologic investigations of environmental hazards and is nationally recognized for her expertise in occupational and environmental health nursing. Her work aims to identify culturally appropriate interventions to decrease the impact of environmental and occupational health hazards in vulnerable populations, including workers and young children. Dr. McCauley was previously the associate dean for research and the Nightingale Professor in Nursing at the University of Pennsylvania School of Nursing. She received a bachelor of nursing degree from the University of North Carolina, a masters in nursing from Emory, and her PhD in environmental health and epidemiology from the University of Cincinnati. She was elected a Member of the Institute of Medicine (now the National Academy of Medicine) in 2008 and has served as a member, co-chair, or chair on numerous National Academies committees.

Michael Bellamy

Member

Michael Bellamy, PhD, is an Assistant Attending Physicist at Memorial Sloan Kettering Cancer Center. His expertise is in applying high-performance radiation transport algorithms to the analysis of occupational radiation safety and epidemiology to more fully understand the relationship between exposure to ionizing radiation and its subsequent adverse health effects. His research has primarily focused on the unintentional intake of radionuclides along with external exposure to radionuclides and radiation-generating devices. Additionally, his research involves quantifying the risk associated with non-acute radiation exposures by supporting the epidemiology of large cohorts of occupationally exposed radiation workers through historical internal and external dose reconstruction. From 2014-2019 he was a staff scientist at Oak Ridge National Laboratory. Dr. Bellamy is a member of the National Council on Radiation Protection and Measurements, a member of the Health Physics Society, and a member of the American Nuclear Society. He currently serves as an unpaid advisory member for the Department of Energy's Biological and Environmental Research Advisory Committee. He received the 2023 John D. Boice Jr. Young Investigator Award. He holds dual bachelors of science degrees in mathematics and physics from Morehouse College, an MS in physics from Clark Atlanta University, and his PhD is in nuclear engineering from Georgia Institute of Technology.

Sarah S. Cohen

Member

Sarah S. Cohen, MS, PhD, is Director, Public Health Research at Social & Scientific Systems, a DLH Holdings Corporation company, a federal contractor. Previously, she spent 20 years in the commercial consulting space at EpidStat Institute, EpidStrategies, and the International Epidemiology Institute leading the design, conduct, and analysis of epidemiologic studies related to pharmacoepidemiology, nutrition, and health outcomes including cancer, cardiovascular disease, and diabetes as well as occupational cohort studies of aerospace workers, welders, and chemical manufacturers. She has over 100 publications, including many related to occupational exposures and health outcomes as well as behavioral and genetic determinants of cancer and metabolic-related conditions such as obesity, racial disparities in cancer, biomarkers of cancer and obesity, and cancer screening. She is a technical consultant to the National Council on Radiation Protection and Measurements with whom she has collaborated on multiple cohort studies examining health effects among radiation-exposed workers. She is also an Adjunct Assistant Research Professor of Medicine within the Department of Medicine at the Vanderbilt University School of Medicine, and she serves as a scientific reviewer for many journals. She holds a PhD in Epidemiology from the University of North Carolina, Chapel Hill and an MS in Biostatistics and Public Health Genetics from the University of Michigan.

Jason N. Krupar

Member

Jason Krupar, PhD, is an Associate Professor of history in the College of Arts and Sciences at the University of Cincinnati. He specializes in history of technology and science policy, history of engineering, history of the Manhattan Project, and Cold War technology/science policy. He co-authored a book chapter in *Nuclear Legacies: Communication, Controversy, and the U.S. Nuclear Weapons Complex* that examined several case studies of grass-roots attempts to preserve the memory of the nation's nuclear arsenal. This book received the 2008 Christine L. Oravac Book Award sponsored by the Environmental Communication Division of the National Communication Association. He authored a book chapter that appeared in *The Atomic Bomb and American Society: New Perspectives*, published by University of Tennessee Press in 2009. He has had articles published in *Public History*, *Technology and Culture* and the *Ohio Valley History Journal*. He has reviewed manuscripts for several professional journals, university presses, and written book reviews for multiple academic journals. His current research project involves investigating the creation of the Atomic River Valley. He earned his PhD in American Social Policy History from Case Western Reserve University in 2000.

Nicole E. Martinez

Member

Nicole E. Martinez, PhD, is an Associate Professor in the Department of Environmental Engineering and Earth Sciences at Clemson University. Since 2019 she is also a Joint Faculty Appointee within the Center for Radiation Protection Knowledge at Oak Ridge National Laboratory. Her first professional position was as an officer in the U.S. Navy where she served just under four years, first as a nuclear power instructor and later a radiation health officer. After separating from the Navy, she worked for 2 years in industry before attending graduate school. A portion of her doctorate work involved spending 1.5 years as part of a research team at Savannah River National Laboratory. Dr. Martinez's current research focuses on dosimetric modeling and the behavior and effects of radiological contaminants in the environment for applications ranging from risk assessment to biosensing. She is a Certified Health Physicist since 2015, vice-chair of Committee 4 of the International Commission on Radiological Protection, and a member of the National Council on Radiation Protection and Measurements. She is also an unpaid board member with special government employee status on the National Institute for Occupational Safety and Health's Advisory Board on Radiation and Worker Health, beginning in August 2022. Dr. Martinez received her MS and PhD in Radiological Health Sciences from Colorado State University, specializing in health physics and radioecology, respectively.

Gurumurthy Ramachandran

Member

Gurumurthy Ramachandran, PhD, is a Professor and Deputy Chair in the Department of Environmental Health and Engineering in the Bloomberg School of Public Health at Johns Hopkins University. He also is the Director of the Johns Hopkins Education and Research Center for Occupational Safety and Health. His research focus areas include occupational exposure and health risks, as well as Bayesian applications in exposure assessment. Dr. Ramachandran developed occupational exposure assessment strategies for a variety of airborne contaminants; novel Bayesian statistical methods that synthesize exposure models, monitoring data, and probabilistic expert judgment; and mathematical methods for exposure modeling and analyzing occupational measurements. He has written extensively on occupational exposure assessment, including a textbook on occupational exposure assessment. He is a Certified Industrial Hygienist and has an Intergovernmental Personnel Act agreement with the National Institute for Occupational Safety and Health. He has served on two prior National Academies' consensus committees, using an Agent Orange Exposure Reconstruction Model for epidemiologic studies and a review of DoD's proposed occupational exposure limits for lead. He earned his bachelor's degree in electrical engineering from the Indian Institute of Technology, Bombay, his MS in environmental engineering from Virginia Polytechnic Institute and State University, and his PhD in environmental sciences and engineering from the University of North Carolina at Chapel Hill.

Jeffrey S. Reznick

Member

Jeffrey Reznick, PhD, is Senior Historian at the National Library of Medicine (NLM) of the National Institutes of Health. He was previously chief of NLM History of Medicine Division. Earlier executive roles included serving as Director of the Institute for the Study of Occupation and Health of the American Occupational Therapy Foundation, Senior Curator of the National Museum of Health and Medicine of the Armed Forces Institute of Pathology, and Executive Director and Senior Research Fellow of the Orthotic and Prosthetic Assistance Fund. As a social and cultural historian of medicine and war, he is author of three books and a member of several professional associations, including the American Historical Association and American Association for the History of Medicine. He is also a member of the University of Birmingham's Center for War Studies and an elected fellow of the Royal Historical Society. He currently serves as an NLM ex-officio representative to the Board of Directors' Collections Committee of the Science History Institute, and to the College of Physicians of Philadelphia's Pew Center for Arts & Heritage-funded exhibition project "Postmortem: Mütter Museum." He received his MA and PhD from Emory University.

David B. Richardson

Member

David B. Richardson, PhD, is Associate Dean for Research and professor of environmental and occupational health at the University of California, Irvine, Program in Public Health. Prior to his current position, he was a professor in the department of epidemiology, School of Public Health at the University of North Carolina at Chapel Hill for 20 years, and also served as deputy director of the North Carolina Occupational Safety and Health Education and Research Center and director of the center's Program in Occupational Epidemiology. His research focuses on the health effects of occupational and environmental exposures, particularly with regard to carcinogens. He has conducted studies of cancer among nuclear workers at several U.S. Department of Energy facilities, as well as studied cancer among Japanese survivors of the atomic bombings of Hiroshima and Nagasaki. Dr. Richardson's current research includes studies of mortality among nuclear industry workers and uranium miners, and development of new methods for occupational cohort studies. He has served as a member of the U.S. President's Advisory Board on Radiation and Worker Health and on the Science Advisory Board for the Environmental Protection Agency. He has also been a member of five National Academies' consensus committees that have focused on veteran populations or radiation exposures. He is a member of Committee 1 (Radiation Effects) of the International Commission on Radiological Protection and he serves as Associate Editor of the journals Occupational and Environmental Medicine and American Journal of Epidemiology. He previously served as Lead Coordinating Writer for the United Nations Committee on Epidemiological Studies of Radiation and Cancer, Scientific Committee on the Effects of Atomic Radiation. Dr. Richardson received a PhD and MSPH, both in epidemiology, from the University of North Carolina at Chapel Hill.

Jeanne M. Stellman

Member

Jeanne Mager Stellman, PhD, is Professor Emerita and Special Lecturer of Health Policy and Management at Mailman School of Public Health, Columbia University. She has considerable expertise in military herbicides used in Vietnam. As PI of a contract to the National Academy of Sciences, she developed methodologies for estimating herbicide exposures in Vietnam and created a then novel geographic information system using military records of spraying and troop and civilian population locations. Her exposure opportunity model was reviewed by committees of the Institute of Medicine that concluded the model holds promise for supporting epidemiologic studies of herbicide exposures and health outcomes in Vietnam veterans. Dr. Stellman served as exposure consultant to the US Eastern District Court Special Master for the Agent Orange Veterans Payment Program. She was editor-in-chief of the ILO Encyclopedia of Occupational Health and Safety, 4th edition and founded the Women's Occupational Health Resource Center, which, supported by federal grants and individual member subscriptions, carried out research, training, and publication. She was editor of *Women and Health*, 1986 – 2004, has authored numerous research papers, monographs, and three books. Additionally, she has served in a variety of volunteer consulting roles for government and non-government advisory bodies concerned with veteran and workers health. She is recipient of numerous grants and awards, including a Guggenheim Fellowship and a Preventive Oncology Academic Award. She is the president of the Foundation for Worker, Veteran, and Environmental Health Inc. (FWVEH), and remains actively engaged in research on the health of Vietnam veterans, particularly studies concerned with Agent Orange and other herbicides. Through FWVEH, Dr. Stellman has conducted several VA-funded follow-up studies on American Legionnaires, which are among the largest and longest followed cohorts of veterans. Dr. Stellman and her husband, Professor Emeritus Steven Stellman are the joint recipients of The American Legion's Distinguished Service Medal and a Vietnam Veterans of America Special Recognition Award because of their ongoing research and assistance to veterans. She holds a doctorate in physical chemistry from City University of New York. Her papers are housed at Harvard's Schlesinger Library.

Gayle E. Woloschak

Member

Gayle Woloschak, PhD, is Professor of Radiation Oncology at Northwestern University Feinberg School of Medicine, and prior to that was Senior Scientist at Argonne National Laboratory. Her current research is in areas of radiation biology understanding the consequences of radiation exposure on biologic systems, working in both external and internal exposures. She also carries out research in nanotechnology. She has conducted significant work with radiation effects from space environments, approaches to mitigate the effects of these exposures, and general radiation protection approaches. Dr. Woloschak is a recipient of the Lauriston Taylor award from the National Council on Radiation Protection and Measurements (NCRP), and she serves as Chair of Program Area Committee 1 (Basic Criteria, Epidemiology, Radiobiology, and Risk) for NCRP. Additionally she is Vice-Chair of Committee-1 (Radiation Effects) and Chair for Task Group 118 (Relative Biological Effectiveness, Quality Factor, and Radiation Weighting Factor) for the International Commission on Radiation Protection, and represents the United States at the United Nations Scientific Committee for Effects of Atomic Radiation. Dr. Woloschak is serving as co-chairperson (2023-2024) for the Science Advisory Committee for the Radiation Effects Research Foundation. She has served as a member of 10 consensus committees for the National Academies on topics of decadal surveys of sciences in space, human health risks of space exploration, and cancer risks of radiation. She received her PhD from the Medical College of Ohio and did post-doctoral training at Mayo Clinic.

Anne N. Styka

Staff Officer

Anne N. Styka, M.P.H., PMP, is a senior program officer in the Health and Medicine Division of the National Academies. She has worked on more than 20 consensus studies (directing or codirecting 10 of them) on a broad range of topics related to the health of military and veteran populations and environmental and occupational health. Such studies include review of VA's presumption decision process; mental health treatment offered in DoD and VA; designing and evaluating epidemiologic research studies of deployment-related exposures, including burn pits, dioxin, airborne hazards, other chemical agents and the use of antimalarial drugs; and a research program of fostering new research studies using data and biospecimens collected as part of the 20-year Air Force Health Study. Before the National Academies, Ms. Styka spent several years as an epidemiologist for the New Mexico Department of Health and the Albuquerque Area Southwest Tribal Epidemiology Center, specializing in survey design and the analysis of behavioral risk factors and injury. She also spent several months in Zambia as the epidemiologist on a study of silicosis and other nonmalignant respiratory diseases among copper miners. She has several peer-reviewed publications and has contributed to numerous state and national reports. She received her B.S. in cell and tissue bioengineering from the University of Illinois at Chicago, has an M.P.H. in epidemiology from the University of Michigan, and is a certified project management professional.