NATIONAL ACADEMIES Sciences Engineering Medicine

WEBINAR SERIES

Clinical Follow-Up and Care for Those Impacted by the JP-5 Releases at Red Hill: Systematic Reviews of Health Effects of Jet Fuels

September 18, 2025 | 4 - 6 PM EST | 10 AM- 12 PM HST

THURSDAY, SEPTEMBER 18, 2025

4:00 PM **Welcome**

Grace Lee, *Committee Chair*
Chief Quality Officer and Christopher G. Dawes Endowed Director of Quality
Stanford Medicine Children's Health and Lucile Packard Children's Hospital Stanford

4:05 PM **Introduction and Webinar Overview**

Andy Olshan, *Committee Member*
Professor of Epidemiology
University of North Carolina at Chapel Hill

4:15 PM **PACT Act, Section 510: Determining the Long-term Effects of Jet Fuel Exposure in the Military**

Terra Vincent-Hall, Speaker
Director of the Exposure Science Program
Senior Toxicologist for Health Outcomes Military Exposures

4:45 PM **A Systematic Review of Human Studies Assessing the Health Effects of Kerosene-Based Jet Fuels and Products Across Diverse Populations and Settings**

Veronica Carvajal
Junior Specialist
University of Hawai'i at Mānoa

5:15 PM **Moderated Panel Discussion**

MODERATOR: Andy Olshan, *Committee Members*

Catherine Pirkle
Professor, University of Hawai'i at Mānoa

Cary Haver
Director of Environmental Health Sciences, ICF

Sorina Eftim
Director of Epidemiology, ICF

5:55 PM **Closing Remarks**

6:00 PM Adjourn Meeting

SPEAKER BIOGRAPHIES

Grace Lee (NAM) (Chair) is chief quality officer and the Christopher G. Dawes endowed director of quality at Stanford Medicine Children's Health and Lucile Packard Children's Hospital Stanford, and associate dean for Maternal and Child Health (Quality and Safety) and professor of pediatrics at Stanford University School of Medicine. She oversees the Center for Pediatric and Maternal Value that seeks to improve quality, safety, patient experience and health equity across the organization. Dr. Lee is an elected member of the National Academy of Medicine and AHRQ's Healthcare Safety and Quality Improvement Research Study Section. She also served as a Board Member for the Society for Healthcare Epidemiology of America (SHEA), Pediatric Infectious Diseases Society (PIDS), and the National Academy of Medicine (NAM) Board on Population Health and Public Health Practice. She was previously the Chair of the U.S. Advisory Committee on Immunization Practices (ACIP) that recommends vaccines for the U.S. population. Dr. Lee received her MD from the University of Pennsylvania Perelman School of Medicine and her MPH from Harvard School of Public Health. Dr. Lee has previously served as a member of the Institute of Medicine Committee (IOM) to Review Priorities in the National Vaccine Plan, the IOM Committee on the Ethical and Scientific Issues in Studying the Safety of Approved Drugs, the National Academies of Sciences, Engineering, and Medicine (NASEM) Committee on Vaccine Research and Development Recommendations for Advancing Pandemic and Seasonal Influenza Preparedness and Response.

Veronica Carvajal is a faculty researcher within the Department of Public Health Sciences at the University of Hawaii at Manoa, and serves as the Scientific Coordinator for the Thompson School Registry Hub of the Red Hill Registry. She holds a Masters of Science in Global Health from the University of Barcelona and the Barcelona Institute for Global Health (ISGlobal). Prior to taking a leadership role on the Red Hill Registry, she supported public health workforce initiatives, including augmenting the environmental health workforce in the Hawai'i.

Sorina Eftim has nearly 20 years of experience in environmental epidemiology and human health risk assessment, in designing and conducting systematic reviews, and in project management. Her expertise lies in critically reviewing and analyzing epidemiologic studies, performing meta-analyses, dose-response estimation, and complex statistical analyses for toxicity assessments. She is an expert in processes and tools for conducting systematic reviews of environmental health. Dr. Eftim has provided leadership and senior technical expertise in multiple high priority, complex projects, including toxicity assessments for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), systematic evidence mapping for the Per- and Polyfluoroalkyl Substances (PFAS) Universe, and systematic reviews on the health effects of jet fuels.

Cary Haver has 17 years of experience related to environmental and occupational health, epidemiology, health effects assessments through literature reviews, technical writing, project management, supporting multidisciplinary scientific committees, and developing peer-reviewed scientific reports. Since joining ICF in 2021, Ms. Haver primarily supports activities for the National Toxicology Program, including the development of peer-reviewed toxicology reports. She also played a key role in managing ICF's contributions to the Department of Veterans Affairs' systematic review to describe the health effects of jet fuel exposures. Prior to joining ICF, Ms. Haver spent nearly 10 years at NASEM supporting consensus committees.

Andrew F. Olshan is a distinguished Professor of Epidemiology, Gillings School of Global Public Health. He is also a Research Professor in the Department of Otolaryngology/Head and Neck Surgery, UNC School of Medicine. Dr. Olshan is the Associate Director for Population Sciences, UNC Lineberger Comprehensive Cancer Center. Previously, he served as the Chair of the Department of Epidemiology and Interim Associate Dean for Research, Gillings School of Global Public Health. Dr. Olshan's primary research interests include the epidemiology of cancer, perinatal, and pediatric outcomes. He has been the principal investigator for multiple NIH-, EPA-, and CDC-funded studies. He currently leads or co-leads three cancer studies and one birth defects study. Dr. Olshan is Editor-in-Chief of Current Epidemiology Reports and was past-president of the Society for Epidemiologic Research. In 2022, Dr. Olshan received the John E. Larsh, Jr. Award for Mentorship, Gillings School of Global Public Health. Dr. Olshan graduated from the University of Washington, M.S. Epidemiology (1982), University of Washington, Ph.D. Epidemiology (1987), University of British Columbia, Postdoctoral Fellow (1987-1989). He has been a member of multiple IOM committees on the Health Effects in Vietnam Veterans of Exposure to Herbicides. He also served on the Committee on Contaminated Drinking

Water at Camp Lejeune, Committee to Review the Draft IRIS Assessment of Formaldehyde, the Committee for the Review of EPA's 2022 Draft Formaldehyde Assessment, and Committee on Toxicology.

Catherine Pirkle, is a Professor of Public Health in the Department of Public Health Sciences at the University of Hawai'i at Mānoa. She is the Scientific Director of the Red Hill Registry, leading an impressive team of faculty, staff, and students who provide technical advising, survey instruments and protocols to the Red Hill Registry. She holds a Masters of Science and a PhD from the University of Montreal in Community Health and Public Health (focus on Epidemiology), respectively. While an epidemiologist by training, Dr. Pirkle is a highly interdisciplinary and collaborative researcher. Her environmental health research has largely focused on food insecurity, exposure to heavy metals, and public health messaging of environmental risks. She is passionate about the health of Islanders and other coastal peoples, and has recently co-led health promotion research that strives to better capture and promote culturally and regionally relevant physical activities in Hawaii. These interdisciplinary interests have resulted in long-term, diverse collaborations with cultural practitioners, physical activity experts, marine biologists, natural resource managers, toxicologists and chemists, among others. Dr. Pirkle's extensive interdisciplinary experience has been an essential asset to her role as Scientific Director of the Red Hill Registry, a role which has required advising, and collaboration from experts across a wide array of disciplines including, risk communication, geological and exposure sciences, and toxicology. Moreover, Dr. Pirkle's two decades of experience in global health– having conducted research in Latin America, sub-Saharan Africa and Oceania–has supported the inclusion of international expertise and perspectives on the scientific activities of the Registry.

Terra Vincent-Hall is Director of the Exposure Science Program and Senior Toxicologist for Health Outcomes Military Exposures (HOME). She has served as a toxicologist at VA since 2011. Dr. Vincent-Hall is VA's technical expert on the chemical, biological, and physical exposures that Veterans may have encountered during military service and those related health effects. Dr. Vincent-Hall works closely with other government agencies to identify and characterize service-related exposures to better understand their impact on the health of Veterans and service members. She also supports the development of health care and disability compensation policies, as well as training for health care providers. As a principal investigator, she leads several research activities to investigate the impact of exposures on Veteran populations, with current projects focusing on jet fuels and PFAS. Dr. Vincent-Hall attended Norfolk State University in Norfolk, VA, as a scholar in the Dozoretz National Institute for Mathematics and Applied Sciences and received a Bachelor of Science in Chemistry. She then attended the University of North Carolina at Chapel Hill in Chapel Hill, NC, where she conducted her doctoral research at the U.S. Environmental Protection Agency in Research Triangle Park, NC, and was awarded a Doctor of Philosophy in Toxicology in 2011. Dr. Vincent-Hall was board-certified in General Toxicology by the American Board of Toxicology in 2022.