NATIONAL ACADEMIES Sciences Engineering Medicine

WEBINAR SERIES

Clinical Follow-Up and Care for Those Impacted by the JP-5 Releases at Red Hill: Characterizing the Event and Exposure

September 8, 2025 | 6 - 8 PM EST | 12 - 2 PM HST

MONDAY, SEPTEMBER 8, 2025

6:00 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

6:05 PM **Introduction and Webinar Overview**

Natalie Exum, *Committee Member*
Assistant Professor, Department of Environmental Health and Engineering
Johns Hopkins Bloomberg School of Public Health

Kurunthachalam Kannan, *Committee Member*
Research Scientist, Wadsworth Center, New York State Department of Health

6:15 PM **Exposure Assessment: November 2021 Release of JP-5 Jet Fuel into the Joint Base Pearl Harbor Hickham Drinking Water System**

Roger Brewer
Retired, Hawaii Department of Health

6:45 PM **Contaminants in Red Hill Shaft and Groundwater**

Katherine McClanahan
Community Liaison

Eva Davis
Retired, U.S. Environmental Protection Agency (EPA)

7:15 PM **Moderated Panel Discussion**

MODERATORS: Natalie Exum and **Kurunthachalam Kannan**, *Committee Members*

Shonali Palacios
Environmental Protection Network

Wayne Tanaka
Sierra Club of Hawai'i

7:55 PM **Closing Remarks**

8:00 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.

Natalie Exum is an assistant professor in the Department of Environmental Health and Engineering at the Johns Hopkins Bloomberg School of Public Health. She worked as a research scientist in the same department for seven years prior to her appointment as an assistant professor. Her expertise in the field of drinking water systems and exposure science will help to characterize the exposure assessment using community-engaged approaches in this activity. Dr. Exum's laboratory focuses on applying principles of environmental microbiology, data science and statistics to protect public health using community-engaged research methods. Dr. Exum was most recently an advisor to the State of Delaware Department of Health and Department of Education on their initiative to remove lead from drinking water in their public schools and is currently a member of the Maryland Statewide Prevention and Reduction Collaborative (SPARC), a statewide quality improvement project engaging public health and academia to address the evolving needs of Maryland hospitals related to infection prevention. Dr. Exum's training was in both environmental engineering (Stanford University, MS) and in public health (Johns Hopkins University, PhD). Her fellowship with the National Science Foundation Integrative Graduate Education and Research Traineeship for Water, Climate and Health has given her an interdisciplinary education.

Kurunthachalam Kannan is Deputy Director of the Division of Environmental Health Sciences and a Research Scientist at Wadsworth Center, New York State Department of Health. His research is focused on understanding sources and pathways of human exposure to environmental chemicals. He is one of the leaders in the field of human biomonitoring of chemical exposures in populations. He has published over 900 research articles in peer-reviewed journals and is the top 5 most highly cited researchers in the field Environmental Health. He is known for his work on the discovery of perfluorochemicals in the global environment, among several others. Dr. Kannan is a recipient of several international awards and honors throughout his career and to name a few, he has won Governor's gold medal in 1986 and SETAC's Weston F Roy Environmental Chemistry award in 1999. Dr. Kannan received his PhD in Environmental Chemistry and Ecotoxicology in 1994 from Ehime University, Japan. He also serves as a professor at several universities including State University of New York at Albany. Dr. Kannan served as a member of the National Academies Committee on Toxicology.

Roger Brewer is a retired senior scientist and environmental hazard assessment specialist with the Hawai'i Department of Health in Honolulu. Beginning his environmental career in 1993 he has expertise in regulatory compliance audits, field investigations, contaminant fate and transport modeling and human health and ecological risk assessments. He has been instrumental in the development and field implementation of the State's Decision Unit and Incremental Sampling Methodology (ISM) guidance, initiated in 2004, and leads regular workshops on ISM investigations for consultants and regulators. Roger has also worked as an environmental consultant in the United States, Asia, and South America and as a senior geologist and environmental risk assessment specialist for the California Environmental Protection Agency. He joined the

ITRC ISM team at the initiation of the project, with a focus on Decision Unit designation and field collection of ISM samples. Roger earned a bachelor's degree in geology from Appalachian State University in Boone, North Carolina in 1984; a master's degree in geology from the University of Tennessee in Knoxville, Tennessee in 1986; and a doctoral degree in geology from the University of Alabama in Tuscaloosa, Alabama in 1991. He was post-doctoral student in geology at the University of Nanjing in Nanjing, China from 1991 to 1993. Roger is a registered geologist in California.

Eva L. Davis recently retired from the EPA after 34 years of working with groundwater and superfund contaminated sites, and desiring to continue giving back to communities, Dr Davis began her research of Red Hill when she volunteered to answer several questions Katherine had regarding groundwater information. Questions that required someone with petroleum groundwater experience to answer. However, after reviewing the practices and questions Katherine posed and learning more about the frequency and patterns Katherine had observed, 6 months and hundreds of volunteer hours later, Dr Davis continues researching the U.S. Navy's groundwater data and meeting regularly with Katherine in order to provide a broader view of what families were exposed to throughout the Navy's drinking water system on JBPHH in 2021.

Katherine McClanahan is a 30-year military spouse whose family was affected by the November 2021 fuel leak at Joint Base Pearl Harbor Hickam (JBPHH) in Hawaii. She has spent the last three years reviewing the Navy's 2021 water quality lab reports associated with Red Hill. With a Master of Science degree in speech pathology, Katherine's background in patient care contributed to her desire to understand the medical effects of drinking water on affected communities. She hopes her research will aid families and physicians caring for those impacted by Red Hill.

Shonali Palacios serves as a Senior Community Outreach Associate with the Environmental Protection Network's (EPN) pro bono capacity-building technical assistance program. Shonali seeks to create and foster meaningful connections between community organizations in the Mid-Atlantic region, experienced EPA alumni, and other allies in order to provide local organizers with vital resources for community projects. Shonali is a graduate of Washington University in St. Louis where she studied Environmental Analysis and English. Prior to working at EPN, Shonali interned at the Environmental Defense Fund (EDF) and served in multiple teaching assistant roles for the Washington University Department of Environmental Studies. She is passionate about environmental protection from a humanitarian standpoint, and a firm believer in the ability of conservation to improve human lives.

Wayne Chung Tanaka is the executive director of the Sierra Club of Hawai'i, one of the leading community organizations that had been sounding the alarm on the dangers of the Red Hill facility in the years leading up to the 2021 fuel spills. He is a former Public Policy Manager for the Office of Hawaiian Affairs, and a longtime advocate for Hawai‘i's natural and cultural resources.