

Committee on Toxicology Annual Meeting – Public Agenda

Wednesday, September 20, 2023 (9 am – 4:30 pm ET)

9 am – 2:30 pm *Open Session*

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| 9:00 am | <p>Introductions, Peter Thorne, Committee Chair</p> <ul style="list-style-type: none"> • Goals and agenda for the meeting • Committee and staff introductions |
| 9:15 am | <p>NASEM updates</p> <ul style="list-style-type: none"> • Liz Boyle – PFAS Consensus Report |
| 10:15 am | <p>JP-5 Health Emergency at Red Hill Presentation</p> <ul style="list-style-type: none"> • Colonel John Oh, <i>Chief, Occupational and Environmental Health Division (OEHD), Defense Health Agency (DHA) Public Health</i> • Dr. William Rice, <i>Defense Health Agency (DHA) Region Indo-Pacific Liaison to Joint Task Force Red Hill</i> |
| 10:45 am | <p>Red Hill Q+A and discussion</p> |
| 11:45 am | <p>Working Lunch</p> |
| 12:45 pm | <p>Wearable technologies presentations</p> <ul style="list-style-type: none"> • Dr. Natalie Johnson, <i>Vice Chair, Interdisciplinary Faculty of Toxicology, Texas A&M University</i> • Dr. John Volckens, <i>Director, Center for Energy Development and Health, Colorado State University</i> |
| 1:45 pm | <p>Wearables Q+A and discussion</p> <ul style="list-style-type: none"> • Discussion on the future of wearable technologies and how the US Department of Defense can benefit from them |
| 2:30 pm | <p>End of open session</p> <ul style="list-style-type: none"> • 15-minute break for COT |

2:45 – 4:30 pm *Closed Session*

4:30 pm Meeting adjourned

SPEAKER BIOS

COLONEL JOHN OH, OCCUPATIONAL AND ENVIRONMENTAL HEALTH DIVISION (OEHD), DEFENSE HEALTH AGENCY (DHA) PUBLIC HEALTH

Colonel (Dr.) John Y. Oh is Chief, Occupational and Environmental Health Division, Defense Health Agency Public Health, Falls Church, Virginia. He leads a team of twenty-five military, civilians, and contractors in executing DoD policy to protect DoD personnel from accidental death, injury, or illness caused by hazardous occupational or environmental exposures. Prior to this assignment, he was the deployed Air Force Forces Forward Surgeon, 9th Air Force (Air Forces Central Command), Al Udeid Air Base, Qatar, where he led a team of six Air Force medics on the Air Forces Central Command staff who advised and supported the Combined Forces Air Component Commander, United States Central Command.

Colonel Oh received his medical degree from Pennsylvania State University where he also completed a residency in internal medicine. He has a Master of Public Health from Johns Hopkins University as part of a residency in preventive medicine. While on active duty, Colonel Oh completed a two-year fellowship in the Epidemic Intelligence Service with the Centers for Disease Control and Prevention. He has served operational and staff assignments as a flight surgeon and preventive medicine physician, and is board certified in internal medicine and general preventive medicine.

DR. WILLIAM RICE, MD, MPH, MHA, DEPARTMENT OF DEFENSE

Dr. Rice is a board-certified Occupational Medicine physician with 30 years of experience in the specialty. As an Army Medical Corps officer, Dr. Rice held a wide variety of positions that included academia; operational medicine including two deployments; Occupational Medicine practice at the local, regional, and enterprise levels; and leadership positions as a medical facility commander, a division surgeon, and Consultant to the Surgeon General for Occupational Health and Environmental Medicine. Now retired from his 31-year active-duty career, Dr. Rice is an Occupational Medicine Physician at the Defense Centers for Public Health – Aberdeen, an Adjunct Assistant Professor of Preventive Medicine at the Uniformed University of the Health Sciences, and a Fellow of the American College of Occupational and Environmental Medicine.

DR. NATALIE JOHNSON, TEXAS A&M UNIVERSITY

Natalie Johnson is an assistant professor at the Texas A&M University School of Public Health. Her research interests include air pollution exposure, particularly effects on infants and children following prenatal exposure, including susceptibility to respiratory infections and asthma. She is interested in nutritional interventions to reduce oxidative stress associated with maternal exposures to protect against these common childhood diseases. Johnson is the vice chair of the interdisciplinary program in toxicology. Johnson was the 2020 recipient of the New Career Scientist award presented by the Reproductive and Developmental Toxicology specialty section of the Society of Toxicology. Johnson received her Bachelor of Science in biology and Doctor of Philosophy in toxicology from Texas A&M University. She completed a postdoctoral fellowship at Johns Hopkins University in environmental health sciences. Johnson was selected as a Texas A&M University Presidential Impact Fellow for 2021 for her commitment to advancing knowledge through transformational learning, discovery and innovation.

DR. JOHN VOLCKENS, COLORADO STATE UNIVERSITY

Dr. Volckens is a professor of Mechanical Engineering and the Director of the Center for Energy Development and Health at Colorado State University (CSU). He holds affiliate appointments in Environmental Health, Biomedical Engineering, the Colorado School of Public Health, and the CSU Energy Institute. His research interests involve air quality, low-cost sensors, exposure science, and air pollution-related disease. He is a founding member of the CSU Partnership for Air Quality, Climate, and Health – an organization that seeks to develop practical, science-vetted solutions to intertwined problems of air quality, climate, and health that we face as a society.

He holds a B.S. in Civil Engineering from the University of Vermont and M.S., Ph.D. degrees in Environmental Engineering from the School of Public Health at the University of North Carolina at Chapel Hill. He then went on to a Postdoctoral position at the U.S. EPA's National Exposure Research Laboratory in Research Triangle Park, NC. At CSU, he has pioneered the development of several new pollution sensor technologies, which have been deployed for public health research in over 30 different countries and as far away as the International Space Station. He is a co-founder of Access Sensor Technologies, LLC – a company started through his research collaborations at Colorado State University. Dr. Volckens is the recipient of the 'Best Paper' award from the American Industrial Hygiene Association (1999, 2017) and the Journal of Indoor Air (2013). He is a 2018 finalist for the NASA Earth, Space, Air Prize. He has published over 100 manuscripts related to exposure science, aerosol technology, and air pollution-related disease and has been the principal investigator for over \$20M in funded research from the US EPA, NIH, CDC, and NASA.