NATIONAL ACADEMIES Sciences Engineering Medicine

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AGENDA

Standing Committee on Transformative Science and Technology for the Department of Defense

Kickoff Meeting
September 14, 2023
Virtual
https://nasem.zoom.us/j/93627432039?pwd=bEgxK1JjVmFIZ1BlRXY5Q2VQOE1VUT09

MEETING OBJECTIVES

- Conduct committee formation and member orientation to include the National Academies organization, procedures, and expectations of NASEM study committees
- Obtain consensus understanding, in consultation with sponsor, on study scope

Thursday, September 14, 2023

CLOSED SESSION

1:00 pm	Welcome Remarks → Richard Murray, Chair → Darlene Solomon, Vice Chair
1:05 pm	Committee Introductions and Orientation Composition, Balance, and Conflict of Interest Review → Tina Bahadori, Executive Director, Division of Engineering and Physical Sciences, NASEM

OPEN SESSION

2:00 pm	Committee Charge and Sponsor Expectations for Standing Committee and Seminar Series → Bindu Nair, Director of Basic Research, Office of the Secretary of Defense, U.S. Department of Defense
3:00 pm	Adjourn Meeting

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SPEAKER BIOGRAPHY

Tina Bahadori is executive director for the National Academies' Division on Engineering and Physical Sciences. Bahadori came to the Academies from the U.S. Environmental Protection Agency's Office of Research and Development, where for eight years she designed and led several transdisciplinary research and risk assessment programs. Her positions at EPA included serving as national program director for human health risk assessment, as center director of the National Center for Environmental Assessment, and as national program director for chemical safety for sustainability. During her time at EPA, Bahadori built extensive collaborations across the landscape of community, national, and international partners from multiple sectors, and was committed to developing innovative approaches that weave together systems-based research and policy solutions. Before joining EPA, her career was founded on nearly two decades of research and science enterprises in the private sector, where she worked on converging and diverging issues related to energy, environment, technology, and chemical management. Bahadori holds a doctorate in environmental science and engineering from the Harvard School of Public Health. From MIT, she holds a Master of Science in Chemical Engineering and Technology and Policy, as well as Bachelor of Science degrees in chemical engineering and in humanities. She served as the president of the International Society of Exposure Science and is an associate editor of the Journal of Exposure Science and Environmental Epidemiology.

Bindu R. Nair is the Director of Basic Research within the Office of the Secretary of Defense (OSD). She is responsible for oversight and coordination of the Department's $2.5 billion annual investment in basic science. This investment supports high risk and high pay-off basic research projects in many fields spanning the physical sciences, life sciences, environmental sciences, applied mathematics, to name a few, that probe the limits of today's technologies and aim to discover new phenomena and develop the know-how that may ultimately lead to future technologies. Bindu previously served in a number of roles at DoD, including Acting Director and Deputy Director in the Human Performance, Training and Biosystems Directorate within the Office of the Secretary of Defense. In this role, she was involved in overseeing a broad range of DoD's science and technology programs. Her specific areas of responsibilities in the office were in environmental technologies, bio-assist technologies (exoskeletons and prosthetics), human machine teaming, and social behavioral modeling in the information environment. Bindu earned a BSc at the University of Florida and a PhD in Materials Science and Engineering at MIT.