

**Tina Marie Kaarsberg, PhD**, is currently Acting Program Manager of the Advanced Materials and Manufacturing Technologies Office (AMMTO) within the U.S. Department of Energy (DOE). Dr. Kaarsberg, oversees two major programs related to semiconductor technology. She is the founder of DOE's "Microelectronics Energy Efficiency Scaling for 2 Decades" (EES2) initiative which was launched in September 2022 and will be described in detail in her talk and she oversees AMMTO's Power Electronics portfolio which includes the recently renewed ManufacturingUSA Institute PowerAmerica focused on wide bandgap-based power electronics—also to be described. Previously at DOE, Dr. Kaarsberg served in several positions in the Policy Office and within the Office of Energy Efficiency and Renewable Energy (EERE) including serving as the EERE SBIR Portfolio Manager and National Laboratory Planning Advisor in the EERE's Office of Strategic Programs. In between her stints in EERE and the Policy Office she also served as Professional Staff on the U.S. House of Representatives Science Committee. Dr. Kaarsberg previously was a faculty member at UCLA and a research fellow at Brookhaven National Laboratory and Cornell University. She was selected as an American Physical Society (APS) Congressional Science Fellow, worked for Sandia National Laboratories, a small business and the Northeast-Midwest Institute before joining DOE. Dr. Kaarsberg was graduated from Yale University with a bachelor in physics (with distinction) and received her doctorate in Physics from Stony Brook University based on research at Cornell University. Dr. Kaarsberg is an elected APS Fellow and has more than 60 publications.