

## COMBINED NAVAL ADDRESS ON CLIMATE, ENERGY & ENVIRONMENT

# Geoengineering the Earth's Climate: an introduction to the scientific and governance issues

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Dr. Katharine Ricke

### About the Speaker

Dr. Kate Ricke is an associate professor at the School of Global Policy and Strategy at UC San Diego and holds a joint appointment with the Scripps Institution of Oceanography. She is an interdisciplinary climate scientist who combines methods from the physical climate sciences, including Earth System Modeling and analysis of environmental observations, with methods from decision theory and risk analysis. Her work focuses on a range of climate policy topics— including climate geoengineering, country-level economic impacts of climate change, air quality-climate tradeoffs in climate policy, and climate-driven human migration— with a consistent theme of characterization of the strategic implications of regionally heterogeneous climate outcomes and quantification of decision-relevant uncertainties. She was part of the 2021 National Academies study committee on designing a solar geoengineering research agenda and formulating principles for research governance and a member of a multidisciplinary expert panel convened to provide a rapid review about solar geoengineering science to the UN Environment Programme.



Dr. Katharine Ricke



The Combined Naval Address on Climate, Energy and Environment is a joint effort by the Naval Postgraduate School, Naval War College, Naval Academy, Naval Community College and Marine Corps University to share perspectives and enhance educational opportunities in the intersection of climate, energy and environment with national security.