

# Reducing the Health Impacts of the Nitrogen Problem

A Virtual Workshop from the  
Environmental Health Matters Initiative

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New sessions every Thursday  
from 2:30–5:30 PM (ET)  
from January 28 – February 25, 2021



# Overview of the Environmental Health Matters Initiative

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Professor in Health, Risk, and Society  
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Health



# The National Academies of Sciences, Engineering, and Medicine

Non-profit organization with a dual vision

- Honor top scientists
- Serve as scientific advisers to the nation
  - Provide independent, objective scientific advice
  - Inform decision-making and public policy
  - Bring together volunteer experts to advise the government, NGOs, foundations, academic communities, and the public



THE ENVIRONMENTAL HEALTH MATTERS INITIATIVE

The EHMI brings together leaders from various sectors to share their insights on how to solve a wide array of environmental health challenges.

1

### NEUTRALITY

A neutral, nonpartisan space where stakeholders can share insights.

2

### STEWARDSHIP

Leadership from an experienced program development team and advisory committees with experts from government, business, and academia.

3

### CREDIBILITY

A long organizational history of working in the environmental health field.

4

### CONNECTION

The unique ability to convene experts from a wide array of science, engineering, and health disciplines.

Environmental health challenges require multi -discipline, multi -sector approaches.



THE ENVIRONMENTAL HEALTH MATTERS INITIATIVE

### Workshop Topics

- Sept. 2019: Identifying Opportunities to Understand, Control, and Prevent Exposure to PFAS
- Nov. 2019: Quality Water from Every Tap
- Aug. 2020: Airborne Transmission of SARS-CoV-2
- July 2021: How We Move Matters: Exploring the Connections between New Transportation and Mobility Options and Environmental Health

Today's challenges at the intersection of environment and health are "Wicked" problems.

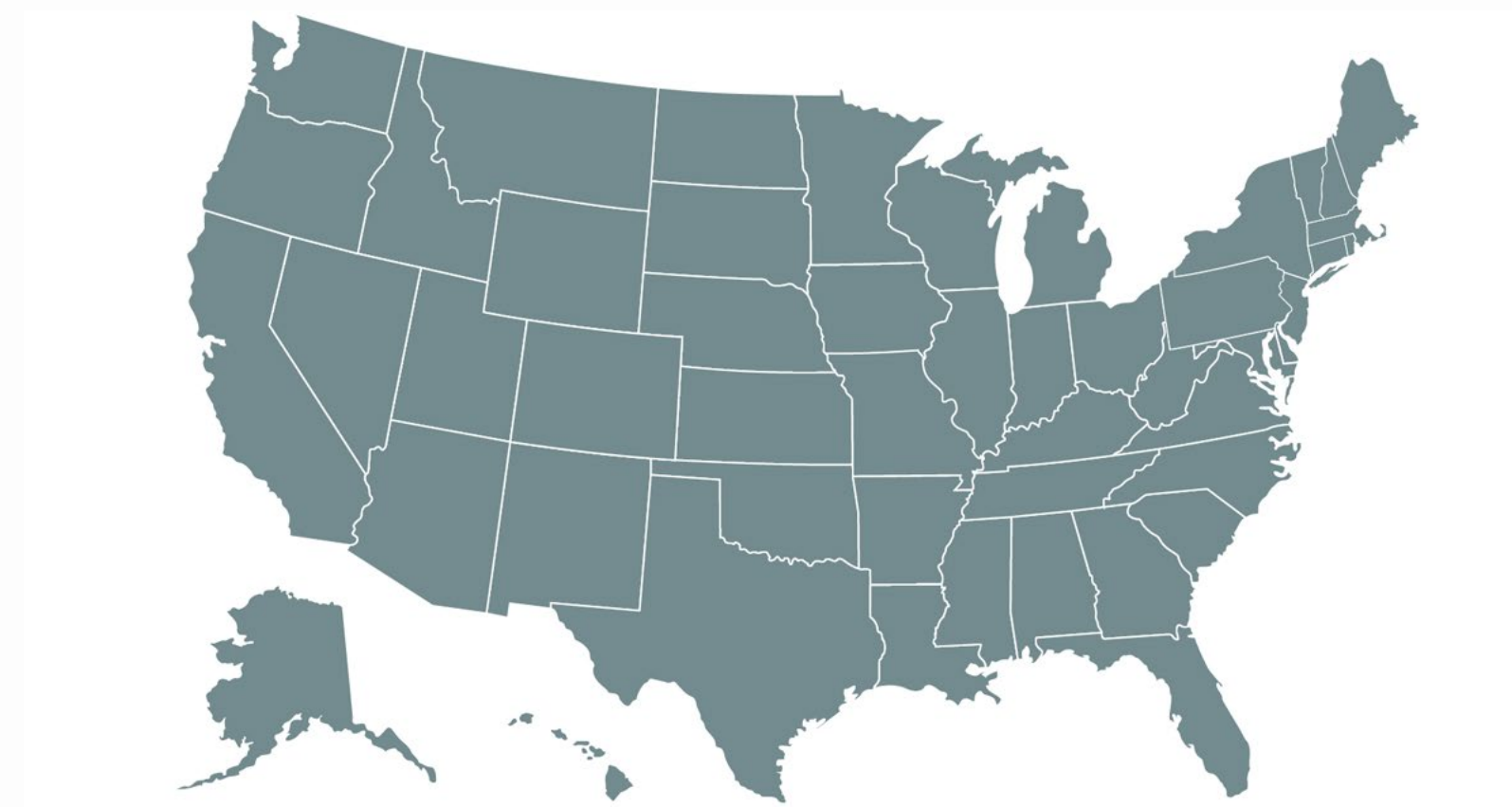


THE ENVIRONMENTAL HEALTH MATTERS INITIATIVE

- Complex
- Affected by many interacting factors
- Various spatial scales and long temporal scales
- May have global implications
- Difficult to define
- Unstable and socially complex
- Have no clear solution or end point
- Extend beyond the understanding of one discipline

## Cross-Cutting Challenges: A Cross Disciplinary Approach

- Epidemiology
- Environmental Health/Science
- Chemistry and Biogeochemical Cycles
- Agriculture
- Water Quality and Management
- Climate and Weather
- Economic Valuation of Ecosystems
- Ecological Risk Management



# Workshop Planning Committee

- Catherine L. Kling, Cornell University
- Elena Austin, The University of Washington School of Public Health
- James N. Galloway, The University of Virginia
- Jerry L. Hatfield, USDAARS National Laboratory for Agriculture and the Environment
- Rajiv Kholsa, Robert Gardner Professor of Precision Agriculture
- Jennifer McPartland, Environmental Defense Fund
- Robyn S. Wilson, The Ohio State University





# EHMI Steering Committee

- Thomas A. Burke, Johns Hopkins University
- Darrell Boverhof, The Dow Chemical Company
- George P. Daston, Procter & Gamble Company
- Ana V. Diez Roux, Drexel University
- Linda J. Fisher, E.I. du Pont de Nemours & Company (retired)
- Estelle Geraghty, Esri
- Lynn R. Goldman, The George Washington University
- Daniel Greenbaum, Health Effects Institute
- Gavin Huntley-Fenner, Huntley-Fenner Advisors
- Philip R.S. Johnson, Heinz Foundation
- Beth Karlin, See Change Institute
- Jennifer McPartland, Environmental Defense Fund
- Devon C. Payne-Sturges, University of Maryland
- Amy Pruden, Virginia Tech
- Martha E. Rudolph, Colorado Department of Public Health and Environment (retired)
- Jonathan M. Samet, Colorado School of Public Health
- Deborah Swackhamer, University of Minnesota



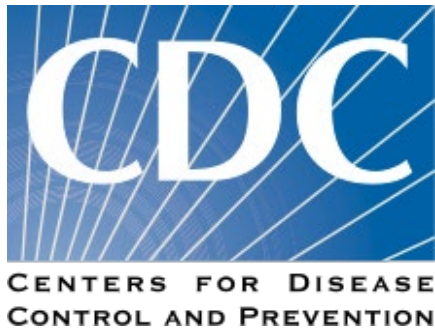
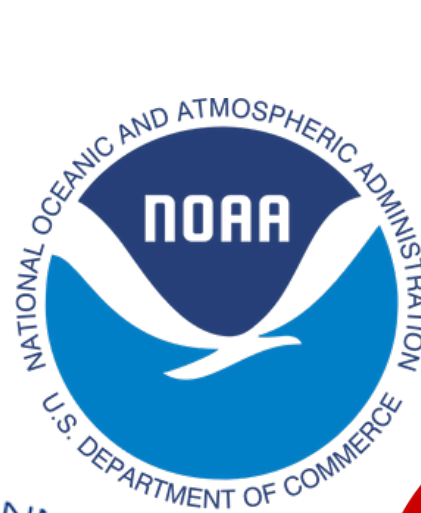
# EHMI Liaisons

- Francie Abramson, Target
- John Balbus, NIH/National Institute for Environmental Health Sciences
- Linda Birnbaum, NIH/National Institute for Environmental Health Sciences
- Patrick Breysse, Centers for Disease Control and Prevention
- Elizabeth Cisar, The Joyce Foundation
- David Dyjack, National Environmental Health Association
- Zach Freeze, Walmart
- Richard Fuller, Pure Earth
- David Fukuzawa, The Kresge Foundation
- Carlos Gonzalez, National Institute of Standards and Technology
- Al McGartland, Environmental Protection Agency
- Ansje Miller, Health and Environmental Funders Network
- Gary Minsavage, Exxon-Mobil Corporation
- Jennifer Orme-Zavaleta, U.S. Environmental Protection Agency
- Surili Patel, American Public Health Association
- Geoffrey S. Plumlee, U.S. Geological Survey
- Karl Rockne, National Science Foundation
- John Seibert, Department of Defense
- Robert Skoglund, Convestro
- Joel Tickner, Green Chemistry and Commerce Council (GC3)
- Juli Trtanj, National Oceanic and Atmospheric Administration
- Jalonne White-Newsome, The Kresge Foundation

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