

Provided by the University of Virginia School of Medicine and School of Nursing  
in collaboration with the Virginia Clinicians for Climate Action  
and with generous support from the UVA Office for Sustainability

# 2023 Protecting Health in a Changing Climate: Health Care Sustainability

April 22, 2023

7:30 am – 5:15 pm (ET)

*“It is becoming increasingly clear that the climate crisis is also a health crisis, and that while every sector has a role to play in protecting our planet’s natural systems, the imperative for the health sector is especially strong.”*

*David Nabarro, MD, Health Care Without Harm  
[Global Road Map for Health Care Decarbonization](#)*

## Overview

The health sector’s global climate footprint is massive—if it were a country, it would be the fifth-largest emitter on the planet, and the U.S. health-care sector is the worst offender. This conference is designed to equip people who are interested in health care sustainability with resources and strategies for reducing health care sector contributions to climate change. The agenda is built around the action steps outlined in the Health Care Without Harm [Global Road Map for Health Care Decarbonization](#).

## Target Audience:

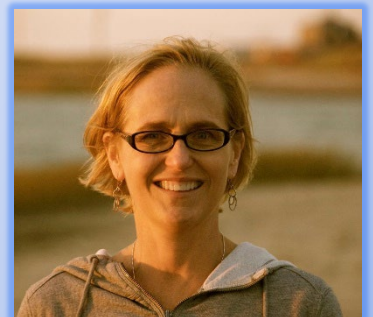
RNs, MDs, PAs, administrators, students in health and environmental sciences, and others with an interest in climate and health.

## Location:

- In-person at UVA Fontaine Research Park, 560 Ray C. Hunt Dr., Charlottesville
- Virtually through Zoom

## Keynote Address

*Introduction to the  
Health Care  
Without Harm  
Global Road Map  
for Health Care  
Decarbonization*



**Amy Collins, M.D.**, is an emergency medicine physician and passionate advocate for sustainable health care and planetary health. Inspired by her son, she led her hospital green team for many years and now supports and inspires physicians interested in promoting climate-smart health care. She believes strongly that the health care sector can lead the way toward a healthy, sustainable future.

# Agenda

Virtual poster session available for viewing prior to the conference.

- |       |   |       |  |
|-------|---|-------|--|
| 7:30  | Check-In, Exhibits, and Breakfast (provided for in-person participants)   | 11:30 | Supply Chain<br><br>Cassandra Thiel, PhD   |
| 8:00  | Opening Remarks<br><br>Kathryn Reid, PhD, RN, APRN, FNP-BC, CNL<br><br>James E. Ryan, JD, President, University of Virginia   | 12:30 | Lunch (provided for in-person participants) and Exhibits   |
| 8:10  | Keynote Address:<br><br><i>Introduction to the Health Care Without Harm Global Roadmap for Health Care Decarbonization</i><br><br>Amy Collins, MD   | 1:15  | Health Care Waste Management: Facilities and Operations<br><br>Joel Sigler   |
| 8:45  | Power Health Care with Clean, Renewable Electricity: Energy Efficiency<br><br>Kevin Fox, BID & Jesse Warren, PE, CEM, LEED AP BD+C, O+M<br><br>Alex Hutton, CEM, LEED AP BD+C & Mehrdad Gharibnavaz, P.Eng. (EGBC, APEGA), M.Sc., PMP, CEM, GBE, CMVP, LEED AP BD+C<br><br>Moderator: Homan Wai, MD, FACP | 2:15  | Health Care Purchasing<br><br>Tim Mooney   |
| 9:45  | Break and Exhibits  | 3:00  | Break and Exhibits   |
| 10:00 | Power Health Care with Clean, Renewable Electricity: Renewable Electricity, & Zero Emissions Buildings and Infrastructure<br><br>Coles Jennings, PE, BEMP, LEED AP BD+C, CEA and Catherine Hughes, MBA  | 3:15  | Establish Greater Health System Effectiveness<br><br>Marina Sotelo, M.Eng., MAEd & Sara Wohlford, MPH, RN  |
| 10:30 | Provide Healthy, Sustainably Produced Food with Zero Food Waste<br><br>Chip Goyette, MSEL   | 4:00  | Opportunities for Engagement<br><br>Samantha Ahdoot, MD, FAAP<br><br>VCCA/Climate Health Organizing Fellows<br>Abigail Hankin-Wei, MD, MPH & Samim Atmar, MD |
| 11:15 | Break and Exhibits  | 5:00  | Closing Remarks & Evaluate   |
|       |   | 5:15  | Reception (provided for in-person participants)  |

## Credit Offered

- 7.5 AAPA Category 1 CME Credits
- 7.5 AMA PRA Category 1 Credits™
- 7.5 Contact Hours
- 7.5 Hours of Participation
- 7.5 IPCE Credits

An electronic syllabus will be provided to all who register for the conference.



# Who's Who

## Guest Faculty

### **Samantha Ahdoot, MD, FAAP**

Chair & Founder of Virginia Clinicians for Climate Action;  
Assistant Professor of Pediatrics, VCU School of Medicine, Inova Campus;  
Pediatric Associates of Alexandria, Inc.

### **Samim Atmar, MD**

Emergency Medicine, INOVA Hospital,  
Alexandria & Fairfax, VA & Bethesda, MD

### **Amy Collins, MD**

Medical Director of Physician Engagement and Education,  
Health Care Without Harm, Wellesley, MA

### **Mehrdad Gharib, P.Eng. (EGBC, APEGA), M.Sc., PMP, CEM, GBE, CMVP, LEED AP BD+C**

Energy Manager, Providence Health Care, Vancouver, BC

### **Chip Goyette, MSEL**

Director of Sustainability, INOVA Health System, Falls Church, VA

### **Abigail D. Hankin-Wei, MD, MPH**

Emergency Physician, INOVA Fairfax Hospital, Fairfax, VA;  
Vice President, PLeDGE Health NGO, Thousand Oaks, CA

### **Catherine H. Hughes, MBA**

Vice President of Operations, Sentara RMH Medical Center,  
Harrisonburg, VA

### **Alex Hutton, CEM, LEED AP BD+C**

Founding Principal, Swordfern Strategic Sustainability, Vancouver, BC

### **Coles Jennings, PE, BEMP, LEED AP BD+C, CEA**

Director of Corporate Sustainability,  
Community Climate Collaborative, Charlottesville, VA

### **Tim Mooney,**

Market Transformation Manager,  
Health Care Without Harm, Morrisville, PA

### **Joel Sigler**

Director, National Environmental Health and Safety,  
Kaiser Permanente, Hyattsville, MD

### **Marina Sotelo, M.Eng, MAEd**

Efficiency and Sustainability Coordinator, Carilion Clinic,  
Roanoke Memorial Hospital, Roanoke, VA

### **Cassandra L. Thiel, PhD**

Assistant Professor, Department of Population Health and Ophthalmology,  
NYU Grossman School of Medicine;  
Department of Civil and Urban Engineering,  
NYU Tandon School of Engineering, New York, NY;  
President & CEO, Clinically Sustainable Consulting, LLC

### **Sara Wohlford, MPH, RN**

Director of Sustainability, Carilion Clinic  
Roanoke Memorial Hospital, Roanoke, VA

## Desired Outcomes

Through participation in this conference, learners will:

- *describe health care sector contributions to climate change*
- *identify resources and strategies for reducing health care sector contributions to climate change*
- *articulate the goal of the Health Care Without Harm Global Road Map for Health Care Decarbonization*
- *list the three pathways to health care decarbonization identified in the Road Map*
- *describe two strategies to maximize energy efficiency in health care*
- *describe two strategies for implementing carbon-neutral energy for buildings*
- *define LEED (Leadership in Energy and Environmental Design)*
- *describe two strategies for reducing food waste in health care*
- *discuss two strategies for enhancing sustainability in health care food service*
- *discuss strategies for implementing sustainable procurement policies*
- *list three examples of sustainable choices in health care purchasing*
- *describe three strategies for reducing waste in health care*
- *describe strategies for safe and environmentally sound treatment of hazardous health care waste*
- *discuss principles of the circular economy framework*
- *describe strategies for implementing principles of circular economy in the health care supply chain*
- *discuss strategies for integrating climate impacts into the definitions of clinical quality*
- *discuss strategies for implementing systematic improvements in health care sustainability*
- *identify resources for health care professionals to learn more about the changing climate and strategies that can help protect human health*
- *identify professional organizations that engage in advocacy at the local, state, and national levels*

# Who's Who (continued)

## University of Virginia Faculty

### Kevin E. Fox, BID

Director of Facilities Planning & Capital Development, UVA Health

### Homan Wai, MD, FACP

Clerkship Director, Internal Medicine,  
UVA School of Medicine Inova Campus;  
Inova Fairfax Internal Medicine Hospitalist;  
Vice Chair of Education and Steering Committee Member, Virginia  
Clinicians for Climate Action

### Jesse Warren, PE, CEM, LEED AP BD+C, O+M

Associate Director, UVA Sustainability

*Special thanks to James E. Ryan, JD,  
President, University of Virginia*

## Planning Committee

### Samantha Ahdoot, MD, FAAP, Course Director

Chair & Founder of Virginia Clinicians for Climate Action; Assistant  
Professor of Pediatrics, VCU School of Medicine, Inova Campus;  
Pediatric Associates of Alexandria, Inc.

### Bryan V. Anderson, MCHS, PA-C

Thoracic Surgery, UVA Health

### Linda Hanson, MSM

UVA School of Nursing Continuing Education (SONCE) Program  
Manager

### Tracy Kelly, DNP, MSN, CPNP-P/AC

UVA School of Nursing Assistant Professor of Nursing, Pediatric Acute  
Care Nurse Practitioner Program Coordinator

### Kathryn Reid, PhD, APRN, FNP-BC, CNL

UVA School of Nursing Associate Professor  
of Nursing, SONCE Director

### Patrick Roney

UVA Environmental Sciences Undergraduate Student

### Mirella Shaban, B.S.

UVA Environmental Sciences PhD Student

### Nicholas D. Snow, MD

Adjunct Professor, Shenandoah University  
Department of Health Professions,

### Homan Wai, MD, FACP

Clerkship Director, Internal Medicine,  
UVA School of Medicine Inova Campus;  
Inova Fairfax Internal Medicine Hospitalist;  
Vice Chair of Education and Steering Committee Member, Virginia  
Clinicians for Climate Action

## Registration

Registration and payment are available  
at [www.cmevillage.com](http://www.cmevillage.com).

To register for this conference with the  
direct link, select:

<https://tinyurl.com/cn9djzn3>

or

navigate to [www.cmevillage.com](http://www.cmevillage.com), click  
on Learning Portal, select  
Interprofessional Education, and scroll to  
this conference listing.

or navigate by the QR code:



## Registration Fees

Early bird registration available through  
April 2, 2023.

	Early/after April 2
Attendee .....	\$95/\$120
UVA Employee .....	\$75/\$95
Student, Resident, or Fellow .....	\$35/\$55

The final day to register will be April 16,  
2023.

The course syllabus will be available  
online only the week of the conference  
until 30 days after the conference.

Please note: Policies on cancellation,  
payment methods, and accommodation  
requests can be found on  
[www.cmevillage.com](http://www.cmevillage.com) under FAQs.

# More Information

## Special Thanks To:

- The [UVA Office for Sustainability](#) for their generous financial support of this conference. Established in 2013, the Office for Sustainability (OFS) supports university-wide collaborative governance, leadership, and implementation of sustainability across Grounds. By partnering with students, faculty, staff, alumni, and the community, OFS is able to infuse and develop a culture of environmental, economic, and social stewardship in alignment with the educational, research, health care, and public service mission of the University. OFS focuses on pan-university strategic planning, program and project implementation across impact areas, engagement, and communication.
- Our collaborators, [Virginia Clinicians for Climate Action](#), (VCCA) was founded in 2017 in order to bring the clinician voice to climate change advocacy in the Commonwealth of Virginia. Clinicians have the knowledge and mission to play a vital role in protecting the health and prosperity of Virginia's families and communities from climate change. VCCA brings this critical perspective into climate-related policymaking in our state. Through education, advocacy, and community outreach, VCCA is building a network of clinician advocates for local and statewide climate change solutions that protect the health of our patients and communities in the Commonwealth.

## Accreditation & Designation Statements



In support of improving patient care, University of Virginia School of Medicine and School of Nursing is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC) to provide continuing education for the healthcare team.



This activity was planned by and for the healthcare team, and learners will receive **7.5** Interprofessional Continuing Education (IPCE) credits for learning and change.

University of Virginia School of Medicine and School of Nursing awards **7.5** contact hours to a nurse who participates in this educational activity and completes the post activity evaluation.

University of Virginia School of Medicine and School of Nursing designates this live activity for a maximum of **7.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



University of Virginia School of Medicine and School of Nursing has been authorized by the American Academy of PAs (AAPA) to award AAPA Category 1 CME credit for activities planned in accordance with AAPA CME Criteria. This activity is designated for **7.5** AAPA Category 1 CME credits. PAs should only claim credit commensurate with the extent of their participation.

University of Virginia School of Medicine and School of Nursing, as an accredited provider, awards **7.5** hours of participation (consistent with the designated number of ANCC contact hours) to a participant who successfully completes this educational activity.

University of Virginia School of Medicine and School of Nursing maintains a record of participation for six (6) years.

## Requirements for Successful Completion of the Course

Conference participants requesting credit are required to complete the post-activity evaluation for the conference sessions in which they participate.

Questions or accommodation requests?

Contact:

Linda Hanson, Program Manager,  
School of Nursing Continuing Education,

[llh3x@virginia.edu](mailto:llh3x@virginia.edu)

