

Climate and Health Education Summit

March 14th-15th, 2024 | Health Education Campus





COURSE DESCRIPTION

The Summit will assemble health education leaders and future leaders, to develop strategies and actions to incorporate climate health impacts into both health education and health delivery systems. At the summit we will educate, share best practices, and inform opportunities to improve climate health education in our academic health centers and health delivery systems. Attendees will leave inspired and empowered to integrate climate health education into their health practices, patient interactions, and community systems to create healthier individuals, communities and bioregions.

Attendees are encouraged to be active participants through workshops and digital posters. We welcome attendees with any level of experience in climate and health education and clinical care, including those with no experience in this area.

LEARNING OBJECTIVES

After completing this educational activity, participants will be able to:

- Identify at least three examples of actionable and practical impacts of climate change on clinical practice in the Great Lakes Region
- Define the concept of “climate smart” healthcare delivery
- Explain the interplay between climate change and health disparities
- Identify at least two high impact areas for integrating climate change and health content into health professional education

TARGET AUDIENCE

All healthcare professionals, trainees, and students with an interest in climate change and health.

GENERAL INFORMATION

The event will take place at Health Education Campus (HEC)-9501 Euclid Ave, Cleveland, OH 44106. HEC doesn't have parking associated please park at your hotel if possible. There is parking available at Cleveland Clinic parking garage (1956 E 93rd St, Cleveland, OH 44106).

Statement of Purpose

The CWRU Climate and Health Education Collaborative of northeast Ohio will create and disseminate educational programs and curricula about the health effects of climate change in order to improve health, empower communities and train future health leaders.

Goals

Education stands at the center of influence for our specific goals in the areas of Health Impact, Resiliency, Mitigation, Research, Equity, and Advocacy.

Planning Committee

Jarrod E. Dalton, PhD

Director, Center for Population Health Research
Associate Staff
Associate Professor of Medicine
Cleveland Clinic Lerner College of Medicine
Case Western Reserve University

Ilyssa Gordon, MD, PhD

Associate Professor
Cleveland Clinic Lerner College of Medicine
Medical Director
Cleveland Clinic Sustainability

Bud Isaacson, MD

Professor of Medicine and Executive Dean
Cleveland Clinic Lerner College of Medicine
of Case Western Reserve University

Karen B. Mulloy, DO, MSCH

Associate Professor
Case Western Reserve University School of Medicine
Department of Family Medicine and Community Health
Department of Population and Quantitative Health
Sciences
Mary Ann Swetland Center for Environmental Health

Mary T. Quinn Griffin, PhD, RN, FAAN, ANEF

Associate Dean for Global Affairs at
Case Western Reserve University,
Frances Payne Bolton School of Nursing

Emily Szramowski, BS

Administrative Program Coordinator
Cleveland Clinic Sustainability

Jon Utech, MBA, MPOD

Senior Director
Cleveland Clinic Sustainability

Andrew Watterson

President & Founder
Blue CSR Strategies

Peter J. Whitehouse MD, PhD

Intergenerative transdisciplinary designer and activist
Professor, Case Western Reserve University and
University of Toronto

Thursday, March 14th, 12:00pm-7:30pm

10:30am-12:00pm Registration Open, Room 176

12:00pm-12:45pm Lunch, Room 176

12:45pm-1:00pm Cleveland Clinic Welcome, Room 176
Bill Peacock, Chief of Operations, Cleveland Clinic

1:00pm-1:30pm Case Western Reserve University Welcome & Lecture, Room 176
The Scientific Explanation for Climate Change
Joy Ward, Provost, Case Western Reserve University

1:30pm-2:00pm Introduction to the Collaborative, Room 176
Ilyssa Gordon, MD, PhD
Bud Isaacson, MD

2:00pm-3:00pm Education Plenary, Room 176
This plenary will include 2 medical students from the University Program and the Lerner College at CWRU School of Medicine and a Frances Payne Bolton School of Nursing faculty member with extensive experience in curriculum development and evaluation. The panelists will briefly share their experiences in developing and integrating climate change curriculum in health education followed by a discussion on how to improve climate health education in the regional academic health centers and health delivery systems.

Objectives:

1. Develop a critical understanding of climate change and its effects on health.
2. Identify opportunities to integrate climate health into a health education curriculum.
3. Discuss strategies for individuals to work as change agents in climate health education.

Panelists:

Celeste M. Alfes
Janine Corley
James Sullivan
Karen B Mulloy - Moderator

3:00pm-3:30pm Break

3:30pm-5:00pm Workshops

Room 153A

Development of Innovative Curriculum on Climate Change

Karen B. Mulloy, DO, MSCH, Ilyssa O. Gordon, MD, PhD

Description: The workshop will introduce participants to several successful curricular strategies on climate health education for medical students.

Room 153B

Climate Change in Graduate Medical Education

Matthew Kostura, MD FAAEM, Laura Schapiro, MD, MPH, Benjamin Miller, MD, Bud Isaacson, MD

Description: The workshop will present current education literature on climate change in the GME space, describe current examples of climate change curricula, brainstorm ways that we can better incorporate this topic into our own programs, collaborate in small groups on case based learning

Room 199A

Environmental Trailblazing in the Learning Space: Why outdoor-ischemia in the educational process is akin to ethical malpractice.

Jefferson H. Jones

Description: You will engage in an evidence-based experience that is a wake-up call for and call-to-action to your peers and patients: Come face-to-face with the myths, truths, and realities addressing the importance of natural environments to their physiological health and socioeconomic well-being.

Room 199B

The Climate Pitch

Taliesin (Ty) Haugh, Megan Yousef

Description: The Climate Pitch is a 4-part interactive workshop to support participants in building climate literacy and moving to action, based on IPCC science.

5:00pm-6:00pm

Digital Posters, Room 181

A Climate Change and Cooling-Informed Guide to City Tree Planting in Northeast Ohio

Trina Pal, Ashwini Sehgal, MD

Case Western Reserve University, MetroHealth System

From the Great Lakes to Global Waters: A Comprehensive Approach to the Emerging Challenge of Harmful Algal Blooms through Research, Education, Policy and Community Engagement

David Kennedy, Steven T. Haller, Bindu Menon, Deepa Mukundan, Apurva Lad, Joan Duggan, Lance Dworkin University of Toledo College of Medicine and Life Sciences

Climate Change and Its Health Effects: An Integrated Approach to Medical Student Curriculum Janine Corley, Karen

B. Mulloy, DO, MSCH

Case Western Reserve University School of Medicine

Training future surgeon leaders in environmental stewardship: a review of a decade of the health care sustainability fellowship

Jenny Chang, Moustafa Moussally, MD, Mujtaba Mubashir, MD, Kimberly Woo MD, Matthew Walsh MD,

Ilyssa O. Gordon, MD, PhD, Jon Utech MBA, Sofya Asfaw MD, Benjamin C Miller, MD

Cleveland Clinic

Promoting the Health Benefits of Urban Trees in Cleveland and the Great Lakes region

Mike Piskur

Great Lakes St. Lawrence Governors & Premier

Incorporating Environmental Health Education into Medical Education

Katie Foug, Andrea McGowan, Melanie Stewart, Sahil Tolia, Amy Zhao.

University of Michigan Medical School

Reducing Anesthetic Greenhouse Gas Emissions in the Operating Room: A Toolkit

Armaan Patel, Nirav Shah, MD

University of Michigan Medical School

6:00pm-6:45pm

Dinner, Winter Garden

6:45pm-7:30pm

Closing Presentation, Room 176

The Intersection of Contemporary Art & Climate Change

Megan Reich, Executive Director, moCa

Friday, March 15th, 7:45am-2:30pm

7:45am-8:30am

Breakfast, Room 176

8:30am-8:45am

Welcome from the City of Cleveland, Room 176

Sarah O'Keeffe, Director, Sustainability & Climate Justice

8:45am-9:45am

Community Plenary, Room 176

This plenary will include 3 talented educators with extensive experience developing programs to promote the health of communities by improving the environment in which community members live. The panelists will briefly share their experiences creating positive changes in the health of communities, followed by a discussion of opportunities to broaden climate health and community work.

Objectives:

1. List best practices to improve the health of communities in the face of climate change.
2. Identify educational priorities to mitigate the effects of climate change on communities.
3. Identify strategies for health professionals to partner with communities to improve health in the face of climate change.

Panelists:

Rich Cochran

Kim Foreman

Sheetal Rao

Bud Isaacson - Moderator

9:45pm-10:00am

Break

10:00am-11:30am

Workshops

Room 153A

Development of Innovative Curriculum on Climate Change

Karen B. Mulloy, DO, MSCH, Ilyssa O. Gordon, MD, PhD

Description: The workshop will introduce participants to several successful curricular strategies on climate health education for medical students.

Room 153B

Are Palm Trees on Lake Erie Good for Your Health?

Dave Nash

Description: Stakeholders, including the medical community, can be viewed as rearranging deck chairs on the Titanic when it comes to addressing climate change. Viewing and acting on climate change through the lens of regenerative bioregions can change that dynamic. Why? Regenerative bioregional thinking is apolitical, scientific, rational, humanistic, ecologically sound, analytically, emotionally, and spiritually intelligent all at the same time.

Room 163

"What We Do to Nature, We Do to Ourselves?"

Tish O'Dell

Description: The workshop will have participants think about humans' place in nature and the interconnectedness of all life, both human and non-human, and how we need to consider these connections in our personal lives and as a culture. For example, we cannot create sustainable communities when our laws and policies make sustainability illegal. How can medical professionals create healthy humans in an unhealthy natural environment? Cultural shift has to begin with people's beliefs and values shifting and Rights of Nature is a good way to begin thinking about this shift. We will explore this concept in the workshop.

Room 169

What Healthcare Professionals Need to Know About Environmental Racism

Fareeda Naduvil

Description: To provide informed care to urban cities, healthcare professionals must know about redlining, its lasting effects on climate and health, and how healthcare institutions and workers can address these forms of environmental racism. Through facilitated discussions and data exploration, participants will engage in activities to develop skills in rhetorical analysis, database use, and addressing environmental racism in patient care.

11:30am-12:30pm

Lunch, Room 176

12:30pm-1:30pm

Advocacy Plenary, Room 176

This plenary will equip participants with the knowledge and skills needed to advocate effectively for addressing climate change's health impacts across various platforms, from local communities to national policy making arenas. Gain insights from experience advocates to understand strategies for leveraging the health consequences of climate change to drive impactful change at all levels of society.

Objectives:

1. Understand the diverse range of advocacy actions available to address the health impacts of climate change, from grassroots efforts to political engagement.
2. Develop skills to effectively communicate a clear and compelling message about the intersection of climate and health to various stakeholders, including policymakers and the public.
3. Formulate a concept to initiate at least one advocacy opportunity focused on addressing climate and health issues within their communities or larger society.

Panelists:

Terri Scannell

Theo Sergakis

Alex Naegele

Jon Utech - Moderator

1:30pm-2:30pm

Next Steps - Reflection and Vision Forward

Bud Isaacson

Andrew Watterson



Celeste M. Alfes, DNP, MSN, MBA, RN, CNE, CHSE-A, FAAN

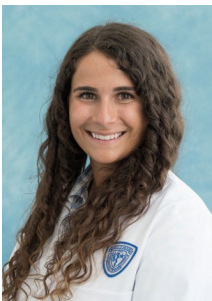
Celeste M. Alfes, DNP, MSN, MBA, RN, CNE, CHSE-A, FAAN, is professor and assistant Dean of academic affairs at the Frances Payne Bolton School of Nursing, Case Western Reserve University. Dr. Alfes has 33 years of experience as a nurse educator and has made significant contributions pioneering simulation training including the development of North America's first high-fidelity helicopter simulator adapted for flight nurse training. Dr. Alfes is a fellow in the American Academy of Nursing; a Fulbright Specialist at the University of Rome Tor Vergata and a recent visiting professor at the University of L'Aquila, Italy, and Aichi Medical University, Japan. Most recently, Dr. Alfes has supported interprofessional education and the incorporation of climate change as a thread in both undergraduate and graduate nursing curricula and co-authored a manuscript entitled *Incorporating Climate Change into Doctor of Nursing Practice curriculum published in the Journal of Professional Nursing*. Dr. Alfes has published several books with Springer Publishing including *Nurse Leadership & Management (2023)*, *Guide to Mastery in Clinical Nursing (2019)*, *Clinical Simulations for the Advanced Practice Nurse (2020)* and *Strategies for Teaching Nursing (2020)*.



Rich Cochran

Rich is a nationally renowned land conservationist and serves as President and CEO of Western Reserve Land Conservancy, the largest land trust in Ohio and one of the top five in the United States. Rich was the founding executive director of the organization and has led its growth through corporate mergers of 13 land conservancies. Today the Land Conservancy generates more than \$25 million in annual revenues, employs about 50 people, and has preserved 70,000 acres valued at more than \$700 million. Primary personal roles at the Land Conservancy include: leadership of senior staff; public speaking; strategic planning; negotiating complex real estate transactions; board development and management; establishing and maintaining relationships with local, state and federal elected officials; fundraising. Grew net assets (exclusive of land) from \$50,000 in 1995 to more than \$25 million today. Completed more than 800 real estate transactions since 1996. Research interests include: how human beings shape ourselves through decisions that shape our environment; the laws of biology that govern all organisms; corporate leadership and excellence; collaborative planning and action to achieve regional economic growth and stability through the preservation and restoration of natural resource endowments.

Rich holds a BA from Middlebury College, and he is a graduate of the Harvard Business School Strategic Perspectives in Non-Profit Management Program. Rich currently serves as Chairman of the Cleveland Tree Coalition Executive Committee, as Chairman of YPO Gold in Cleveland, and as a member of the LTA National Leadership Council. He has also been honored by many colleges and similar institutions including, the Hiram College Garfield Society, Crain's Cleveland Business C-Suite Executive of the Year, the Cleveland Museum of Natural History Conservation Award, and Marquis Who's Who. Rich lives in Shaker Heights, Ohio with his wife, Jen, a pediatrician and founder of Green Road Pediatrics in Cleveland.



Janine Corley

Janine Corley is a third-year medical student at Case Western Reserve University School of Medicine. She is originally from Maryland and received a Bachelor of Science in Biology with a second major in Chemistry and a minor in Neuroscience from the University of North Carolina at Chapel Hill. She was also a 2022 Student Scholar in the Interprofessional Scholars Collaboration in Teaching and Learning (iSCTL) Program at the School of Medicine. Through her participation in the iSCTL program, she has been working alongside Dr. Karen B. Mulloy designing and implementing a curricular intervention aimed at integrating climate change into the preclinical medical school curriculum. Her academic interests include climate change medical education, emergency medicine, and child injury prevention. Outside of medicine, she enjoys playing soccer, exercising with her dog, and exploring Cleveland with friends.



Kim Foreman

Kim Foreman Graduated from Case Western Reserve University in 2001 with a degree in Sociology (honors), and a minor in chemistry. As the CEO at Environmental Health Watch in Cleveland, Kim has focused on Environmental Justice issues and adverse outcomes of environmental exposures both indoors and outdoors, that disproportionately impact poor and minority communities. During her 20+ years with EHW, she has developed, implemented and managed various local, direct service on the ground grassroots projects, worked on national projects, spoken at local and national conventions, and has appeared on several radio and television shows. She has been interviewed by the Plain Dealer, New York Times and featured in the Aljazeera English documentary, “Poison in Our Walls” and a contributing author for two publications.

Major projects: Fresh Fest Cleveland 2019-present; Justice 40 EPA Thriving Communities lead partner; Administrator for the Lead Safe Cleveland Resource Center, The National BUILDHealth Challenge rounds 1.0, 2.0 (healthy homes) & 4.0 (food justice); The National Kresge FreshLo Program, HFFI Food Cooperative Planning Initiative for Central/Kinsman, Youth Farmers Leadership Program; Easy Does It Cooking Classes I and II; Green Houses and Greenhouses Project; Neighborhood Leadership for Environmental Health Project; Race, Food & Justice Conference 2013/2014/2016/18; Case Western Reserve University Prevention Research Center Fellow; Invest In Children Research Project; Urban Mold & Moisture Research Project; Tenants for Healthy Housing Project; Cockroach Allergen Reduction Research Project; Various Healthy Homes/Lead Prevention/Asthma Trigger Control Outreach and Education Projects. In 2013 Kim completed the Deep Green and Healthy Homes-Occupant Interview Study for the Case Western Reserve Prevention Research Center PEER Research Fellows Program.

Awards: 2022 National Impactful 40 Enterprise Community Partners Award, 2021 NAACP Unsung Heroes Award, 2019 Cleveland Champions (Guardian/Cleveland Plain Dealer), 2019 Ohio Environmental Council Community Collaboration Award, 2019 Ohio State Legislature Environmental Achievement Award, 2019 Cleveland City Council Resolution of Appreciation.

Kim has been a licensed lead risk assessor for 20 years, and Roots of Success instructor. She has served and currently serving on several boards and advisory committees: HUD Lead and Healthy Homes Advisor, Equity Analysis on National Lead Policy Task Force, UH RB&C Community Advisory Board, Center for Achieving Equity (formerly Cuyahoga Place Matters Team), Rid-All Green Partnership Board Chair, Neighborhood Leadership Cleveland Board Member and Graduate Class #18.



Ilyssa O. Gordon, MD, PHD

Dr. Gordon is an Associate Professor of Pathology specializing in Gastrointestinal Pathology. She has spoken locally, regionally, and nationally on Greening the Labs, is a core member of the physician advisory committee to Health Care Without Harm, and co-chairs the Landfill Diversion Working Group for the International Institute for Sustainable Laboratories. As Medical Director, she is involved in identifying and supporting physicians whose work supports the mission of the Sustainability Department, enhancing communication between Sustainability and Cleveland Clinic professional staff, and raising awareness of sustainability activities to increase Caregiver engagement.



Taliesin (Ty) Reid Haugh

Taliesin (Ty) Reid Haugh grew up in Cleveland's east side, where he taught martial arts and dance while attending Cleveland State University, earning a degree in Anthropology. He is currently a NOWCorps AmeriCorps member serving at the Cuyahoga County Board of Health (CCBH) in the Watersheds office of the Environmental Health department as the Education and Outreach specialist. In 2019 Ty completed a Masters degree in Sustainable Development at the School for International Training (SIT) Graduate Institute in Vermont, where he continued to teach movement arts while also expanding into permaculture, grant writing, and nonprofit management. He brings his 15 years of community organizing and 25 years of teaching experience to serve CCBH in developing and supporting projects related to tree planting, watershed cleanup, ecological management and public health education.



Bud Isaacson, MD, FACP

Bud Isaacson, MD, FACP is Professor of Medicine and the Executive Dean of the Cleveland Clinic Lerner College of Medicine of Case Western Reserve University. He received his medical degree from the University of Michigan in 1984 and completed his Internal Medicine Residency and Chief Residency at the University of Vermont in 1988. Dr. Isaacson joined the Department of General Internal Medicine at the Cleveland Clinic in 1993 where he practices and teaches. He served as the Assistant Dean for Clinical Education at CCLCM prior to being selected as Executive Dean. He has served as Chair of the Professionalism Council and as a member of the Board of Governors at Cleveland Clinic. Professionalism Council initiatives have included development of a 6 session on-boarding program focusing on professionalism and revision of the annual professionalism review (APR) process at Cleveland Clinic. Dr. Isaacson's interests include climate and health education, medical education, professionalism, doctor/patient communication skills, and the use of appreciative inquiry in medicine. He is a Fellow of the American College of Physicians and a member of the Society of General Internal Medicine.



Jefferson H. Jones

Jefferson is currently the Operations Director for Organic Connects, Inc. and holds a mathematics degree from Lincoln University (PA) and a law degree from Case Western Reserve University. He is a serial sociopreneur in the entertainment, hospitality, and educational fields. Having served as an Army Airborne Ranger, Jefferson is committed to protecting and serving our seniors and children. A filmmaker and outdoorsman, Jones believes a more intimate symbiotic experience and relationship with the natural environment is the key to peace and well-being for the human species.

His motto: A tide lifts all boats.

Jefferson lives in Cleveland Heights, Ohio with his wife, soulmate, business partner and best friend, Whitnye Long Jones, and their three children, Nia, Jefferson, and Joseph Reef.bias facilitators to mitigate implicit bias in healthcare delivery and leadership development.



Matt Kostura, MD, FAAEM

Cleveland Clinic, Emergency Services Institute, Staff
Assistant Program Director, CWRU/Metrohealth Medical Center/Cleveland Clinic Emergency Medicine Residency Program
Assistant Professor of Emergency Medicine, Cleveland Clinic Lerner College of Medicine
Section Editor, Journal of Emergency Medicine
Academic Interests: Climate Health, Education, POCUS, Simulation



Megan Lykins Reich

Megan Lykins Reich was named moCa's Kohl Executive Director in January 2022; she has been with the museum since 2004. Working with and guiding the Board of Directors, management team, and museum staff, she provides strategic leadership for moCa's annual exhibitions, programs, partnerships, outreach, and operations. She leads fundraising and stewardship efforts to sustain and strengthen moCa, drawing upon her long moCa history; strong peer network via participation in groups like Leadership Cleveland and Association of Art Museum Directors; and previous experiences as interim executive director, deputy director, curator, and educator.

Reich has enhanced moCa's community relevance and national visibility via exhibitions and diverse social, cultural, and educational programs. Reich governs and evaluates the implementation of the museum's Strategic Plan; she was a lead on the team who wrote the Plan and later authored its action strategies, moCa 5.0 and OPEN HOUSE. During her tenure, Reich has overseen the engagement department and the implementation, alignment, execution, and evaluation of all strategic initiatives and engagement strategies ranging from technology-based offerings and public programs to offsite partnerships, exhibition-centered interactives, and delivery-based programs. Reich has organized 35 exhibitions, written/edited 13 catalogues/books, produced hundreds of public programs, and connected moCa to thousands of audience members.

Reich served as moCa's Emily Hall Tremain Curatorial Fellow (2004-2006), and The Cleveland Museum of Art Contemporary Art Fellow (2003-2004). In 2001, she graduated valedictorian from The Pennsylvania State University's School of Visual Arts, where she earned a BA in Art History and a BA in Studio Art. In 2004, Reich received her MA in Art History and Museum Studies from Case Western Reserve University, where she conducted doctoral studies.



Benjamin T. Miller, MD

Dr. Miller is a general surgeon at the Cleveland Clinic Main Campus in Cleveland, OH. His clinical interests include acute care surgery, hernia and foregut surgery, and surgical sustainability. He is the Digestive Disease Institute Sustainability Improvement Officer and the director of the Ken Lee Research Fellowship in Sustainability and Quality Improvement.



Karen B. Mulloy, DO, MSCH

Dr. Karen B. Mulloy is an Associate Professor with the Departments of Family Medicine and Community Health and Population and Quantitative Health Sciences and the Mary Ann Swetland Center for Environmental Health, Case Western Reserve University, School of Medicine.

Her research work has concentrated on developing and evaluating curriculum in graduate and postgraduate education. As the Co-Director of the University of New Mexico (UNM) Program in Occupational Medicine and Environmental Health, 1998-2007, she led the development of educational materials in both English and Spanish, training courses, and occupational health education needs assessments for primary care providers and promotores in New Mexico. She has been the lead author on 4 peer reviewed teaching modules funded by the AOEC/NIOSH/ATSDR and was co-author on two other peer reviewed teaching modules. As Director of Continuing Education for the NIOSH funded Mountain and Plains Education and Research Center, 2007-2011 and Director of the Occupational and Environmental Residency Program, 2011-2012, she directed the development of innovative training programs and continuing educational opportunities in the field of occupational health and safety.

Since 2013, her work at CWRU SOM has concentrated on developing and evaluating occupational and environmental health curriculum, including climate change and health disparities for medical and MPH students and family medicine and preventive medicine residents. Dr. Mulloy's current research also includes being a co-investigator on two grants "Local Level Air Pollution Exposure among Agricultural Workers" and "Mobile Pulmonary Function Testing to Promote Health Equity in the Latino Farmworker Community".



Alexandra Naegele

Alexandra Naegele is a Research Scientist in the Climate Risk Program at the Woodwell Climate Research Center, with an interdisciplinary background in climate science, environmental science, and international development. She focuses on the ways that changing climate hazards will impact society. This includes partnering with communities to inform climate resilience planning, collaborating with researchers to understand climate impacts on public health and national security, and engaging with policy.

Alexandra completed a B.S. in Environmental Science from The Ohio State University. After graduating, she served in the Peace Corps and worked on community-based adaptation to climate change in rural Morocco, and returned with the goal of bridging the science and the societal impacts of climate change. She completed her M.S. and Ph.D. in Atmospheric Science at Colorado State University, where she also earned a graduate certificate in International Development.



David E. Nash

David E. Nash is a Partner at McMahon DeGulis LLP, an environmental and energy law firm based in Cleveland, Ohio. As an environmental lawyer for 40 years, Dave has negotiated diverse stakeholder interests to achieve real world business and legal solutions. Dave's legal practice includes environmental issues relating to advanced energy, emerging technologies, corporate sustainability, climate change, business and real estate transactions, regulatory matters and legislative matters, environmental litigation, and environmental enforcement actions. He has experience in advanced and renewable energy permitting and regulatory counseling for developers and owners, including counseling for the first offshore wind turbine project proposed for Lake Erie. Dave successfully negotiated regulatory hurdles on first functioning wind turbine on the southern shore of Lake Erie. He has provided counseling on renewable energy credits, energy efficiency, and carbon emission credit and offset projects and advised on real estate transactions, including lease counseling for landowners on wind farm and solar farm projects.

Dave is active in a number of community economic revitalization projects. He is a co-convenor of the Corporate Sustainability Network, an economic development community action team. Dave currently serves on the Board of Conscious Capitalism North East Ohio. For ten years, Dave served on Cleveland Mayor Jackson's SC 2019 Stewardship Council. Dave also served on the Industrial Advisory Board at the College of Applied Engineering, Aeronautics and Technology, Kent State University. Dave has also served as the vice-chair for the ABA-ACORE Renewable Energy Teleconference Series.

Dave is a frequent speaker on a variety of environmental law topics, including many panels at the Ohio State Bar Association Environmental Law and Energy Committee, most recently in 2017. He moderated a panel discussion at the 2014 Baldwin Wallace University Sustainability Symposium on "Vision and Leadership in the Public Sector - Creating a Sustainable Region by 2050" which included the Executive Directors of the Cleveland MetroParks, the Northern Ohio Regional Sewer District and the City of Cleveland's Chief of Sustainability. In April 2011, Dave presented "No Guts, No Glory—Litigation Risks in Offshore Wind" at the American Bar Association "New Frontier: Science Technology & the Law in 2011" TTEL Seminar. In June 2010, Dave presented "Harvesting the Winds of Change: County and Local Stakeholders Involvement in Wind Negotiations" at the CCAO/CCEO Summer Seminar. Dave also addressed the Offshore Wind Energy Summit North America on emerging trends in renewable energy in October 2009.

In September 2016, Dave was the recipient of the Cleveland Metropolitan Bar Association Green Initiative Committee's Green Sustainability Award. In September 2009, Dave was recognized as a champion of sustainability in Northeast Ohio when he received the Green Lantern Award from Crain's Cleveland Business.

Dave received his law degree from Duke University School of Law with honors and earned a B.A. degree magna cum laude, from Wake Forest University. He was honored as a Fellow of the Ohio State Bar Foundation, Class of 2001. Dave and is listed as one of the best environmental lawyers in America by *The Best Lawyers in America* and recognized by Chambers USA.



Fareeda Farhan Naduvil Valappil

Fareeda Farhan Naduvil Valappil is a sophomore at Case Western Reserve University majoring in Neuroscience (B.S.) with a secondary major in Mathematics (B.A.). As a student who grew up in the suburbs of Cleveland herself, she has pursued various projects regarding Cleveland's history in the fields of redlining, lead poisoning, and the social determinants of health. She is interested in the intersections between legislation, systemic inequities, the environment, and health, and hopes to apply to medical school to explore these topics further in her career. In her free time, she enjoys drawing, volunteering with children at Bolton Elementary School, and exploring with her friends.



Tish O'Dell

Tish is a senior staff member at the Community Environmental Legal Defense Fund (CELDF) and has worked as a Community Organizer and currently as Consulting Director assisting and educating residents on how to organize rights based initiatives in their communities in order to help them “make real” the healthy and sustainable communities they envision for the future. CELDF has assisted hundreds of communities across the country develop “first in the nation” laws banning fracking, factory farming, water privatization, industrial scale energy development, and for nature’s rights, including the first in the nation law recognizing the rights of a specific ecosystem, the Lake Erie Bill of Rights in 2019. She has conducted workshops, taught CELDF’s Democracy School and given talks all over the country including Case Western Reserve’s Social Justice Teach In, The Arthur Morgan Institute for Community Solutions, University of Richmond School of Law and the Ohio National Lawyer Guild Conference. Tish has also been featured in the documentaries *We the People 2.0*, *Invisible Hand*, appeared on the Thom Hartmann Show, The Daily Show and is one of the editors of the 2021 book *Death by Democracy: Protecting Water and Life – Frontline stories from Ohioans fighting corporate and state power*. She has been published in the Ecologist, TruthOut, Common Dreams, the Cleveland Plain Dealer and the Columbus Free Press and appeared on many podcasts and webinars including Damages, The Julie Rose Show (NPR), Living on Earth, and a European Parliament webinar “Towards a European Recognition of the Rights of Nature”.



Sarah O'Keeffe

Sarah O'Keeffe is Director of Sustainability & Climate Justice at the City of Cleveland, leading sustainability and climate justice initiatives and a staff of passionate change makers. As a part of Mayor Bibb's cabinet, Sarah works with peers to pursue equitable solutions to climate change and other environmental issues facing the Greater Cleveland community, specifically in the areas of circular economy, energy, sustainable transportation, land use and the transformation of other resource-intensive systems at the local and regional levels.

A few key 2024 priorities include the attraction of federal and state funding for energy transformation in Cleveland, the community-centered refinement of city climate action goals to reach science-based targets and the deployment of neighborhood level climate solutions like a residential composting program and publicly accessible EV charging. Sarah and the Mayor's Office of Sustainability work collaboratively with a number of community based groups, non-profit organizations, universities and governmental agencies on these priorities. Sarah formerly led sustainability programs at the MetroHealth System and University Hospitals, based in Cleveland, OH, earned an MBA focused in sustainability and non-profit management from Case Western Reserve University and bachelor degrees in English Literature and Aeronautical Studies.



Sheetal Rao, MD

Sheetal Khedkar Rao, MD, is an internal medicine primary care physician. As Co-founder and Chief Health and Engagement Officer of the Illinois non-profit Nordson Green Earth Foundation (NGEF), Dr. Rao works with local communities to improve tree canopy in the Chicago region by planting native pocket forests using the Miyawaki Method. In 2022, NGEF planted the first Miyawaki forest in Illinois, in the city of Markham, with the help of 50 local community members in a planting day event led by 25 middle school students. NGEF is currently in the planning stages for two additional forests.

Dr. Rao is a 2022-23 University of Colorado Climate and Health Fellow, and a 2021-2022 Climate Health Organizing Fellow through Harvard's Center for Health Equity Education & Advocacy. She represents NGEF and its communities as part of the National Academy of Medicine's Climate Communities Network. Dr. Rao studied medicine at Georgetown University and completed her residency at the University of IL, Chicago (UIC) where she now cares for patients and teaches future physicians as Assistant Professor of Clinical Medicine. Dr. Rao also co-teaches a graduate course on the health impacts of climate change at the UIC School of Public Health. Her climate work and activism is inspired by the desire to build a greener, healthier and more equitable future for all –particularly her children, her patients and the Chicagoland communities she works with.



Olivia Rizzo, MD

Olivia Rizzo, MD is a 3rd year resident in internal medicine at University Hospitals Cleveland Medical Center and Louis Stokes Cleveland Veterans Affairs Medical Center in Cleveland, Ohio. She is a graduate of Miami University with a Bachelor of Science in biochemistry and graduated from Wayne State University School of Medicine with her medical degree. She is a member of the Leadership in Medical Education pathway in her residency program and will be implementing the program's first Advocacy Curriculum as her capstone project. She will be Chief Resident for the 2024-2025 academic year. Her academic interests include medical education, advocacy, and the intersections of environmental and human health, particularly with respect to lung disease. In her free time, she enjoys walking in Metroparks, watching Cleveland sports, and spending time with her friends and family.



William M. Peacock, III

Bill Peacock has served as Chief of Operations at Cleveland Clinic since 2009. In this role, he oversees enterprise operations for Buildings + Design, Supply Chain and Support Services, Clinical Engineering, Protective Services, Sterile Processing, Hotels, International Operations and Global Patient Services, Marketing and Philanthropy.

Under his guidance, Operations is tasked with ensuring every facility is designed and operating at optimal levels to address patients' needs from the moment they step through the door to the moment they leave. This includes everything from supplies, functional operations, clinical equipment, food services, patient transportation, environmental services, parking services, safety and security, and among others.

He has been at the forefront of Cleveland Clinic's international growth strategy in the Middle East, Asia, Europe and Central and South America.

He joined Cleveland Clinic in 2005 as Executive Director of Facilities Construction and Real Estate. In 2008, he became Executive Director of Operational Support Services.

Before joining Cleveland Clinic, he served 24 years in the United States Navy, retiring as a Captain in the Civil Engineer Corps. He held two major commands: managing the facilities, construction and real estate needs of Navy and Marine Corps forces across the Pacific Rim in Japan; and leading a battalion of naval construction force "Seabees" in several deployments to Pacific, Middle East, and Central and South American nations.

He is a member of the American Society of Healthcare Executives and the American Society of Healthcare Engineers. He graduated with a Master of Science in Electrical Engineering from Purdue University and a Bachelor of Science in Electrical Engineering from the US Naval Academy. He attended the Kellogg School's Advanced Executive Program.



Terri Scannell

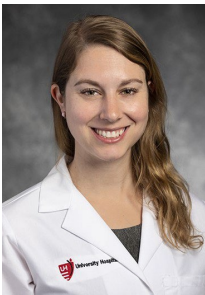
Terri Scannell is Principal Advisor, Sustainability & ESG at OhioHealth. In her previous role, Terri was Senior Director, social responsibility, ESG, philanthropy and community benefit at Vizient. In her role at Vizient, Terri led corporate responsibility, as well as hospital community benefit, decarbonization and sustainability practices.

Terri serves on the following: Institute for Healthcare Improvement: Accelerating Decarbonization Advisory Committee member; the Joint Commission-Environmental Sustainability Technical Advisory Panel; and the National Academy of Medicine Action Collaborative on Decarbonizing Committee member. Terri led Vizient to sign the 2022 HHS Climate Pledge and created the first Taskforce for Climate-Related Financial Disclosures Issues Brief in healthcare. Terri is a member of the Technical Expert Panel for climate and health hosted by the American Hospital Association.

Terri has 25 years of experience leading corporate social responsibility, organizational sustainability, ESG, impact reporting, tax exempt status and financial management efforts. She served on the Culture of Health for Business Taskforce working with the Robert Wood Johnson Foundation and the Global Reporting Initiative. This endeavor received a World Changing Ideas 2020 Award from FastCompany.

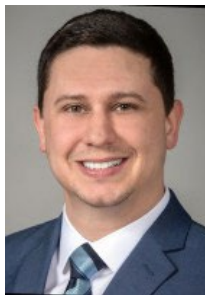
Terri worked with the Sustainability Accounting Standards Board to develop the SASB standards for healthcare and is an expert in the Global Reporting Initiative Framework. She participated in the White House Initiative: Greening America's Hospitals and was selected for Harvard T.H. Chan School of Public Health's Executive Education in Sustainability Leadership, as well as Wharton's Initiative for Global Climate Leadership.

Terri holds degrees in Finance, a Master of Business Administration, and a post graduate degree in Law (UK).



Laura Schapiro

Laura Schapiro, MD, MPH serves as a primary care med-peds physician at the UH Suburban Health Center and also provides care for patients at the Rainbow Ahuja Center for Women and Children in the Adolescent Medicine Clinic. She currently shares the role of Associate Program Director for the UH/Rainbow Med-Peds residency. Additionally, she co-directs the pediatric residency advocacy track. Her advocacy interests include the promotion of physician civic engagement and the effects of climate change on health. She spoke on a panel for the "Incorporation of Climate Change Education Into Pediatric Training: Current State and Best Practice" at the Association of Pediatric Program Directors (APPD) annual meeting. She presented on the impact of heatwaves on pediatric health at the Climate and Health 2023 Conference and spoke on the health effects of climate change in Northeast Ohio for a roundtable on Ideastream Public Media, an NPR station.



Theo Sergakis

Theo brings a wealth of experience in both energy efficiency and environmental sustainability as the Director, Energy and Sustainability Program for the Ohio Hospital Association. Leveraging his passion for sustainability and clean energy transformation, Theo has developed and led utility-scale and energy efficiency initiatives both in health system and business sectors.

Theo earned a master's degree in Business Operational Excellence with a health care focus and an undergraduate degree in Health Sciences from The Ohio State University. He has achieved Six Sigma Black Belt certification and is a certified associate in project management.



James Sullivan

James is a fifth-year medical student and medical fellow at the Global Consortium on Climate and Health Education (GCCHE). His interest in the environment is personal, longstanding, and multidisciplinary, but rooted in education. His first foray into climate change and health began in 2019 at the Cleveland Clinic Lerner College of Medicine, helping design and implement a climate change and health curriculum. He has since worked across health professions and in multiple organizations to advocate for the connections between climate and health in the context of the complex intersectionality of climate amplified health disparities and environmental justice.



Jon E. Utech, MBA, MPOD

Jon E. Utech is the Senior Director of the Sustainability department at Cleveland Clinic, where he develops sustainability strategies to emphasize the triple bottom line. Jon directs the Clinic's sustainability program covering energy demand reduction, climate resilience, green building, recycling, sustainable food, greening supply chain, engagement, and reporting. Jon leads the organization's climate action which includes climate resilience planning, energy efficiency and renewable energy. Jon serves on the Healthcare without Harm Climate Council, Healthcare Sector Steering committee for the Better Building Challenge, Vizient Environmental Leadership Council and on the boards of the National 2030 District, Sustainable Cleveland 2019 and Evergreen. Jon's team works to engage Cleveland Clinic caregivers and the community in this effort to support the overall goal of improving environmental health and human health.



Joy K. Ward

Joy K. Ward is the Provost and Executive Vice President of Case Western Reserve University, having assumed the role on January 1, 2024, following six months of interim service. During her short time in the role, Ward has led development of a strategic initiative to add 100 net new tenured and tenure-track faculty positions, collaborated on planning for the Interdisciplinary Science and Engineering Building and oversaw the launch of a restructured Undergraduate Advising Support Office and implementation of new Undergraduate General Education Requirements. Ward is also a professor of biology in the College of Arts and Sciences, where she served as dean from July 2020 to June 2023. In her three years as dean, Ward led dramatic growth in research, fundraising and educational activities. She greatly increased research expenditures and achieved record-breaking fundraising to support the critical impacts of the arts, humanities, and sciences. Ward also created the Expanding Horizons Initiative—supported by over \$9 million in donor contributions—with the goal of advancing student-faculty collaborations in research and creative works for real-world impact. She spearheaded the Experimental Humanities Initiative with funding from the Jack, Joseph and Morton Mandel Foundation to support new education and research programs that integrate humanities more deeply with science and technology. An award-winning researcher, Ward is internationally recognized for her work on how plants respond to rising atmospheric carbon dioxide and changing climate. She has published many impactful peer-reviewed research articles, and was co-editor of the recent book, *Photosynthesis, Respiration and Climate Change*. Ward received her Bachelor of Science degree from Penn State University and her master's and PhD degrees from Duke University in biology.



Andrew Watterson

Andrew is an experienced sustainability and environmental, social governance (ESG) practitioner who leverages his expertise corporate responsibility and organizational development to guide organizations toward creating a positive impact on society, people, and the planet, while creating positive financial returns. He holds a deep belief in power of authentic leadership and being purpose driven as a means of creating an enduring positive reputation.

Andrew launched Blue CSR Strategies in 2020 and leads client engagements to support positive ESG impacts. His work includes helping organizations understand “what matters most”, strategy development, reporting and program management. Blue CSR serves as an extension to many internal ESG teams and companies both large and small.

Prior to launching Blue CSR Strategies, Andrew held leadership positions in both public and private sector organizations including GOJO Industries, KeyBank, BrownFlynn (now an ERM Company) and the City of Cleveland, OH. His responsibilities included sustainability, corporate responsibility, communications, diversity & inclusion, and community & governmental affairs.



Megan Yousef

Megan started her career as a pharmacist before pivoting into the training sphere, where she built and ran training teams for 6 years. Megan is building a community of climate educators across the US, and along with her colleague, Allison, is the first of two facilitators bringing Climate Pitch to the US. When Megan's not facilitating climate conversations, she leads a women's tango community and loves to go foraging.