

Kristie L. Ebi



Kristie L. Ebi is a Professor in the Departments of Global Health and Environmental and Occupational Health Sciences at the University of Washington. She is also the director of the Center for Health and the Global Environment. She has been working on climate change for about 20 years. She conducts research on the impacts of and adaptation to climate change, including extreme events, thermal stress, foodborne and waterborne safety and security, and vector borne diseases. Her work focuses on understanding sources of vulnerability and designing adaptation policies to reduce the risks of climate change in a multi-stressor environment.

Jeremy Hess



Jeremy Hess is an Associate Professor in the Departments of Medicine, Environmental and Occupational Health Sciences, and Global Health at the University of Washington. He is also the co-director of the Center for Health and the Global Environment (CHanGE). Jeremy is an expert on increasing resilience to the health risks of climate change through improved understanding of impacts and of options to iteratively manage risks in a multi-stressor environment. He is also an Emergency Medicine Physician.

Clark Halvorson



Clark Halvorson is the Assistant Secretary for Environmental Public Health for the Washington State Department of Health. He oversees all programs and services that are part of the Environmental Public Health Division.

He comes to this role with more than 23 years of experience in public health. This includes administering the State of Washington's Office of Drinking Water and Office of Radiation Protection, as well as the water resource programs for the city of Olympia and the Nisqually Tribe.

Maura Little



Maura Little was hired as the Washington State Director of Life Science and Global Health Development in December 2013. As one of eight Sector Leads, Little supports the development and expansion of the life science and global health industries in the state, with a goal to recruit, retain and expand those sectors.

Little brings 10 years of experience working on policy and community development. During her time as legislative assistant for then Congressman Jay Inslee, she served as point of contact for the Congressman in the state for trade associations, business leaders, government agencies and elected officials. She worked closely with the industry to connect local talent and promote the sectors within Congress. After serving on Congressman Inslee's staff, Little served as the Washington State Director of Government Relations for the American Cancer Society Cancer Action Network. There she worked with the state legislature and Insurance Commissioner to ensure patient access and safety was being addressed during the implementation of the Affordable Care Act.

Little has a Bachelor of Science degree from the University of Washington. She currently lives on Vashon Island with her husband Reeves and son Rudy.

Tony Usibelli



Tony Usibelli is a special assistant to the director of the Dept. of Commerce for energy and climate policy. He formerly was the director of the Washington State Energy Office in the Department of Commerce.

Previously, Tony worked at the Washington State University Energy program, managed the energy efficiency-section of Washington State Energy Office, and was a staff scientist at the Lawrence Berkeley National Laboratory. He is an adjunct faculty member at the Evergreen State College.

Tony holds an M.S. in Energy and Resources from UC-Berkeley and B.A.s in Geography and Classical Archaeology. He was born in Usibelli, Alaska, his family's coal mining town.

Dennis McLerran



Dennis McLerran was appointed by President Barack Obama to serve as the Regional Administrator (RA) for EPA Region 10, leading a staff of over 500 employees, with a responsibility for an annual budget of over \$300 million. He was sworn in on February 22, 2010. As the RA, Dennis oversees the implementation and enforcement of the federal environmental rules and regulations in the States of Washington, Oregon, Idaho and Alaska, including 271 tribal governments in the Pacific Northwest and Alaska.

Before moving to EPA, Dennis served as Executive Director of the Puget Sound Clean Air Agency, and has been involved in a wide variety of state, local and federal issues and jobs in both the public and private sectors. Dennis has over 30 years of experience as an advocate, attorney and administrator, working on environmental, land use and climate issues.

Michael Lazarus



Michael Lazarus is a Senior Scientist, Director of SEI-US, and co-leader of SEI's Initiative on Fossil Fuels and Climate Change. For over 25 years, Michael has worked at the intersection of energy and climate policy. He advises, publishes, and presents widely on climate policy, carbon markets, and energy planning. He has worked in over 30 countries, with support from government agencies, development banks, foundations, utilities, and non-profit groups. Among other duties, he has served as advisor to the Partnership for Market Readiness and the Western Climate Initiative, as member of the Methodology Panel of the Clean Development Mechanism, and on numerous non-profits boards. He is adjunct faculty at the Evans School of Public Administration at University of Washington, where he teaches Energy and Climate Policy. He holds an M.S. in Energy and Resources from the University of California, Berkeley.

Gary Yohe



Gary W. Yohe is the Huffington Foundation Professor of Economics and Environmental Studies at Wesleyan University; he has been on the faculty at Wesleyan for more than 30 years. Most of his work has focused attention on the mitigation and adaptation/impacts sides of the climate issue.

Involved since the early 1990's with the Intergovernmental Panel on Climate Change that received a share of the 2007 Nobel Peace Prize, he served as a Lead Author for four different chapters in the Third Assessment Report that was published in 2001.

Professor Yohe served as a member of the New York City Panel on Climate Change and currently participates as a member of the standing Committee on the Human Dimensions of Global Change of the National Academies of Science.

Professor Yohe is currently a member of the United States Global Change Research Program Advisory Committee of the National Research Council; and he has been a co-editor, along with Michael Oppenheimer, of Climatic Change since August of 2010.

Gary Geernaert



Gerald (“Gary”) Geernaert is currently director, Climate and Environmental Sciences Division, at the US Department of Energy. In addition, he is the Vice Chair of the US Global Change Research Program (USGCRP), and the DOE principal to the US Interagency Arctic Research Policy Group.

In previous appointments, Geernaert was director, Institute of Geophysics and Planetary Physics, Los Alamos National Laboratory (2002-2010); director of the Department of Atmospheric Environment, National Environmental Research Institute, Denmark (1994-2002); program manager, Office of Naval Research (1989 – 1994), and staff scientist and strategic planner at the US Naval Research Laboratory (1985-1990). In addition, Gerald Geernaert held several affiliate appointments, including national representative to the environmental policy group, Nordic Council of Ministers. With a background in meteorology and oceanography, he has produced more than 100 research articles, and he has edited four books. In addition, he developed numerous initiatives, supported by the Office of Naval Research, Department of Energy, and the European Union, related to air-sea interactions, marine meteorology, space-based remote sensing, environmental economics, infrastructure security, and climate change.

Steve Smith



Steven J. Smith is a senior scientist at the Joint Global Change Research Institute (Pacific Northwest National Laboratory <http://globalchange.umd.edu/>) and the Department of Atmospheric and Oceanic Science, University of Maryland. His research focuses on long-term socio-economic scenarios and the interface between socio-economic systems and the climate system.

Recent research includes:

- * examination of the role of non-CO₂ forcing agents in policy scenarios, including sulfate aerosols, black carbon, and non-CO₂ greenhouse gases,
- * analysis of the role of renewable energy and energy efficiency in meeting greenhouse gas emission goals and co-benefits for air quality.
- * development of an open-source system for the estimation of global emissions of aerosol and aerosol precursor compounds

Smith was one of the developers of the GCAM object-oriented modeling framework used at JGCRI and a lead author for the IPCC Special Report on Emissions Scenarios and the IPCC Fifth Assessment Report. He received his PhD in physics from the University of California at Los Angeles.

Doug Arent



Doug Arent is Executive Director of the Joint Institute for Strategic Energy Analysis at the National Renewable Energy Laboratory (NREL). In addition to his NREL responsibilities, Arent is Sr. Visiting Fellow at the Center for Strategic and International Studies, serves on the American Academy of Arts and Sciences Steering Committee on *Social Science and the Alternative Energy Future*, is a member of the National Research Council Committee to Advise to U.S. Global Change Research Program (USGCRP), and is a Member of the Keystone Energy Board. Arent was recently invited to serve on the World Economic Forum Future of Electricity Working Group, and is a member of the International Advisory Board for the Journal Energy Policy.

Arent was a Coordinating Lead Author for the 5th Assessment Report of the Intergovernmental Panel on Climate Change (IPCC).

His research interests are centered in energy and sustainability, where he has been active for more than 30 years. He has published extensively on topics of clean energy, renewable energy, power systems, natural gas, and the intersection of science and public policy. Arent has a Ph.D. from Princeton University, an MBA from Regis University, and a bachelor's of science from Harvey Mudd College in California.

Jonathan Buoncore



Jonathan Buoncore, Sc.D., is the program leader for the Climate, Energy, and Health at the Center for Health and the Global Environment at the Harvard T.H. Chan School of Public Health. His research interests are in evaluating the impacts, benefits, and tradeoffs of technology and policy choices in energy, transportation, agricultural practices, and climate change mitigation and adaptation. To assist in these evaluations, Jonathan develops tools that incorporate environmental risk assessment, life cycle assessment, and environmental economics with the goal of placing health, climate, environmental, and other outcomes into a framework to aid decision-making. Jonathan's research topics range from improving understanding of health and environmental risks of hydraulic fracturing and midstream oil and gas infrastructure, to understanding health "co-benefits" of the U.S. EPA's Clean Power Plan and different energy efficiency and renewable energy projects.

Jonathan received his doctoral degree from Harvard T.H. Chan School of Public Health, and was in the first cohort of the HUCE Graduate Consortium on Energy and Environment. Jonathan also holds a Master of Science in Industrial Hygiene from Harvard T.H. Chan School of Public Health, and a Bachelor of Science in Environmental Science and Policy from Clarkson University.

Rebecca Saari



Rebecca Saari is an Assistant Professor in Civil and Environmental Engineering at U. Waterloo. She studies health impacts from air pollution under climate change and climate policy. Her work is published in *Environmental Science & Technology* and *Nature Climate Change*, included in “Climate Change in the United States: Benefits of Global Action”, and covered in news outlets including CBC, NBC, and New York Times. During her MASc at U. Toronto she developed a commercialized sensor for air pollutants and greenhouse gases. She was an air quality engineer for 4 years with AECOM and Environment and Climate Change Canada. Her Ph.D. is in Engineering Systems at MIT. She is a Total MIT Energy Initiative Fellow, and Martin Sustainability Fellow.

Christopher Tessum



Christopher Tessum is a Research Scientist in the University of Washington Department of Civil and Environmental Engineering. His work is focused on understanding and reducing air quality-related public health impacts, with a focus on life cycle assessment and scientific model development.

Before coming to the University of Washington, he worked as a Postdoctoral Research Associate in the University of Minnesota Department of Bioproducts and Biosystems Engineering. Previous to that, he earned a PhD in Civil, Environmental, and Geo-Engineering and a Bachelor's Degree in Mechanical Engineering from the University of Minnesota.

Jason West



Jason West conducts interdisciplinary research addressing air pollution and climate change by using models of atmospheric chemistry and transport and tools for quantitative policy analysis. His work aims to understand the relationships between air pollution and climate change and their relevance for science and policy on local through global scales.

Using computer models, Dr. West is currently exploring the effects of changes in emissions on global air quality (ozone and particulate matter), the international transport of air pollutants, the health effects of air pollution, the effects of climate change on air quality and the radiative forcing of climate.

Recently, Dr. West led the first study of the co-benefits of greenhouse gas (GHG) mitigation for air quality and human health to use global atmospheric models and future scenarios; results showed that the monetized co-benefits exceeded previous co-benefits estimates and exceeded the global costs of GHG mitigation through 2050.

Maggie Grabow



Maggie Grabow is a Complementary and Integrative Health Research Fellow at the University of Wisconsin-Madison School of Medicine and Public Health's Department of Family Medicine and Community Health. Guided by Dr. Jonathan Patz, Maggie completed her PhD in Environment & Resources in 2013 from the Nelson Institute at UW-Madison. Prior to that, she completed her Master of Public Health and Master of Science in Land Resources from UW-Madison in 2010 and 2007 respectively. Maggie's efforts have focused on quantifying and understanding the many health and climate co-benefits of transforming communities to support bicycling and walking opportunities, as well as understanding and evaluating the many predictors of active transportation behaviors.

Paul Wilkinson



Paul Wilkinson is Professor of Environmental Epidemiology at the London School of Hygiene & Tropical Medicine. After training in medicine in Oxford and London, UK, he began epidemiological research at the National Heart and Lung Institute before moving to the London School in 1994. His primary research interests focus on environmental exposures, including those relating to climate change, air pollution and the built environment. He has worked with the World Health Organization on these topics over many years, and is a member of the UK Committee on the Medical Effects of Air Pollutants.

John Balbus



John M. Balbus, M.D., M.P.H., serves as a senior advisor to the Director on public health issues and as NIEHS liaison to its external constituencies, stakeholders, and advocacy groups. He also leads NIEHS efforts on climate change and human health. In this capacity he serves as HHS principal to the U.S. Global Change Research Program, for which he also co-chairs the Interagency Cross-Cutting Group on Climate Change and Human Health. Dr. Balbus' background combines training and experience in clinical medicine with expertise in epidemiology, toxicology, and risk sciences. He has authored studies and lectures on global climate change and health, transportation-related air pollution, the toxic effects of chemicals, and regulatory approaches to protecting susceptible subpopulations.

Before joining the NIEHS, Dr. Balbus was Chief Health Scientist for the non-governmental organization Environmental Defense Fund. He served on the faculty of The George Washington University, where he was founding Director of the Center for Risk Science and Public Health, founding co-Director of the Mid-Atlantic Center for Children's Health and the Environment, and Acting Chairman of the Department of Environmental and Occupational Health. He maintains an adjunct faculty appointment at the Johns Hopkins Bloomberg School of Public Health.

David Cleveland



David Cleveland is a human ecologist who has done research and development project work on sustainable agrifood systems with small-scale farmers and gardeners around the world, including in Bawku District, Upper East Region (Ghana), Oaxaca (Mexico), Zuni and Hopi (southwest USA), Peshawar Basin, Khyber Pakhtunkhwa Province (Pakistan) and Santa Barbara County (California, USA). He earned an M.S. in genetics and a Ph.D. (1980) in ecological anthropology from the University of Arizona, and is a Research Professor in the Environmental Studies Program, and the Department of Geography University of California, Santa Barbara (UCSB). He is also co-director of the Center for People, Food and Environment in Tucson, Arizona.

Cleveland's research and teaching have focused on sustainable, small-scale agrifood systems, including plant breeding and conservation of crop genetic diversity, local and scientific knowledge and collaboration between farmers and scientists, and on the role of local food systems in climate change, nutrition, and food sovereignty.

Roni Neff



Roni Neff directs the Center for a Livable Future's Food System Sustainability and Public Health program and is an Assistant Professor in the Bloomberg School's Environmental Health Sciences department and Health Policy and Management departments. Her work focuses on food system sustainability and resilience. She is engaged in multiple research projects on the issue of wasted food. Other topics of interest include farm policy, climate change and food system resilience, food system worker health, meat consumption, and framing connections between food systems and public health.

Roni developed the first-ever textbook on food systems and public health on behalf of the Center. She teaches two courses: Baltimore Food Systems: A Case Study in Urban Food Environments and Food System Sustainability Practicum. Both are service-learning courses, and Roni was a SOURCE Service-Learning faculty fellow in 2012-2013. Roni also manages the Center's research programs.

Alistair Woodward



Alistair Woodward is Head of Epidemiology and Biostatistics in the School of Population Health, University of Auckland, New Zealand. He has a background in medicine, environmental health and epidemiology. Present research interests include optimising health benefits of low-carbon transport, the future of the bicycle, co-benefits of green urban spaces and climate change impacts and mitigation in China. He was a CLA for the Health chapter in AR5.

Rona Birnbaum



Rona Birnbaum manages the Climate Science and Impacts Branch in EPA's Climate Change Division in the Office of Atmospheric Programs. She has been with EPA's Air Office for 25 years working at the interface of science and policy issues. The Climate Science and Impacts Branch works to leverage, apply and communicate climate science for policy and regulatory support and works closely with researchers and economists to assess impacts of climate change and benefits (or avoided risks) of mitigation. Areas of focus include climate change indicators (www.epa.gov/climate-indicators), climate and health, short-lived climate forcers and Arctic impacts, and evaluation of risks and benefits as seen in the Climate Impacts and Risk Analysis project (www.epa.gov/cira). Rona's group also played a significant role in the USGCRP's Climate and Health Assessment.

John Weyant



John P. Weyant is Professor of Management Science and Engineering, Director of the Energy Modeling Forum (EMF) and Deputy Director of the Precourt Institute for Energy Efficiency at Stanford University. He is also a Senior Fellow of the Precourt Institute for Energy and the Freeman-Spolgi Institute for International Studies at Stanford. His current research focuses on analysis of global climate change policy options, energy efficiency analysis, energy technology assessment, and models for strategic planning. He currently serves as co-editor of the journal *Energy Economics*.

Weyant has been a convening lead author or lead author for the Intergovernmental Panel on Climate Change for chapters on integrated assessment, greenhouse gas mitigation, integrated climate impacts, and sustainable development, and most recently served as a review editor for the climate change mitigation working group of the IPCC's fourth assessment report. He was also a founder and serves as chairman of the Integrated Assessment Modeling Consortium (IAMC), a five year old collaboratory with 53 member institutions from around the world. He has been active in the U.S. debate on climate change policy through the Department of State, the Department of Energy, and the Environmental Protection Agency. In California, he is a member of the California Air Resources Board's Economic and Technology Advancement Advisory Committee (ETAAC) which is charged with making recommendations for technology policies to help implement AB 32, The Global Warming Solutions Act of 2006.

Jeff Duchin



Jeff Duchin is the Health Officer and the Chief of the Communicable Disease Epidemiology & Immunization Section for Public Health—Seattle & King County, Washington, and Professor of Medicine, Division of Allergy & Infectious Diseases and Adjunct Professor in the School of Public Health, at the University of Washington.

Jeff did his infectious disease subspecialty training at the University of Washington in Seattle. He trained in internal medicine at Thomas Jefferson University Hospital and completed a fellowship in general internal medicine and emergency medicine at the Hospital of the University of Pennsylvania.

As a member of the Centers for Disease Control and Prevention's (CDC's) Epidemic Intelligence Service he was assigned to the National Center for Infectious Diseases and investigated multiple outbreaks including *Mycobacterium haemophilum* among persons with AIDS, drug-resistant *Streptococcus pneumoniae* in rural Kentucky, Legionnaire's disease, psittacosis, and Hantavirus Pulmonary Syndrome. After completing the CDC's Preventive Medicine Residency program he worked for CDC as a medical epidemiologist in the Divisions of Tuberculosis Elimination and HIV/AIDS Special Studies Branch before assuming his current position.

Jeff is a member of the National Academies of Science (NAS) Forum on Microbial Threats and a past member of the NAS Forum on Medical and Public Health Preparedness, the National Quality Forum's Adult Immunization Committee and CDC's Advisory Committee on Immunization Practices. He is currently the Chair of the Public Health Committee for the Infectious Diseases Society of America.

Paul English



Paul English is currently Senior Science Advisor for the Environmental Health Investigations Branch at the California Department of Public Health. He is Principal Investigator of the California Environmental Public Health Tracking Program and has directed multiple research grants from the CDC, U.S. EPA, and NIH. He has published on climate change and health and was a World Health Organization advisor contributing to a systematic review of health indicators of climate change and a consultant on heat preparedness for the Public Health Foundation of India. Dr. English received his masters in public health and doctorate degree in Epidemiology from the University of California, Berkeley. He has 20 years of experience working in environmental public health for the California Department of Public Health.