



INSTITUTE OF MEDICINE

OF THE NATIONAL ACADEMIES

ROUNDTABLE ON ENVIRONMENTAL HEALTH SCIENCES, RESEARCH, AND MEDICINE

**GLOBAL ENVIRONMENTAL HEALTH AND SUSTAINABLE DEVELOPMENT  
INNOVATION COLLABORATIVE**



**HEALTH IN THE CONTEXT OF GLOBAL CLIMATE CHANGE**

**Speaker Biosketches**

**John M. Balbus, M.D., M.P.H.**, serves as senior advisor for public at the National Institute of Environmental Health Sciences (NIEHS). He also leads NIEHS efforts on climate change and human health. In this capacity he serves as Department of Health and Human Services 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 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. Dr. Balbus received his A.B. degree in Biochemistry from Harvard University, his M.D. from the University of Pennsylvania, and his M.P.H. from the Johns Hopkins School of Public Health.

**Kristie L. Ebi, Ph.D.**, is an independent consultant and Consulting Professor in the Department of Medicine, Stanford University who conducts research on the impacts of and adaptation to climate change, including on extreme events, thermal stress, foodborne safety and security, and vectorborne diseases. Her work focuses on understanding sources of vulnerability and designing adaptation policies and measures to reduce the risks of climate change in a multistressor environment, including identifying indicators to measure changes in resilience and effectiveness of adaptation options. She was Executive Director of the IPCC Working Group II Technical Support Unit from 2009 -2012. She has worked with WHO, UNDP, USAID, and others on assessing vulnerability and implementing adaptation measures in Central America, Europe, Africa, Asia, and the Pacific. She facilitated adaptation assessments for the health sector for the states of Maryland and Alaska, and was a coordinating lead author or lead author for the human health assessment for two US national assessments, the IPCC Fourth Assessment Report, the Millennium Ecosystem Assessment, and the International Assessment of Agricultural Science and Technology for Development. Dr. Ebi's scientific training includes an M.S. in toxicology and a Ph.D. and a Masters of Public Health in epidemiology, and two years of postgraduate research at the London School of Hygiene and Tropical Medicine. She has edited four books on aspects of climate change and has more than 140 publications.

**Stéphane Hallegatte, Ph.D.** is senior economist with the World Bank. His work includes macroeconomic dynamics and green growth strategies, urban economics and environmental policies, climate change vulnerability and adaptation, and disaster risk management. He is lead author of the IPCC for the special report on risks and extreme events published in 2011, and for the fifth assessment report to be published in 2014. He co-lead with Marianne Fay the World Bank flagship report "Inclusive Green Growth: the Pathway to Sustainable Development."

**Marc Levy** is Deputy Director of the Center for International Earth Science Information Network (CIESIN), a unit of Columbia University's Earth Institute. He is also an Adjunct Professor in Columbia's School of International and Public Affairs. He is a political scientist specializing in the human dimensions of global environmental change. His primary research areas are climate-security linkages, global environmental governance, and sustainability metrics. He has published in a wide variety of sub-topics, including emerging infectious disease modeling, anthropogenic drivers of global change, sustainability indicators, vulnerability mapping, and public-private partnerships. His research has been supported by a variety of agencies, including the National Science Foundation, U.S. Agency for International Development, National Institutes for Health, National Aeronautic and Space Administration, UN Environment Program, and the International Institute for Applied Systems Analysis. He has served on several committees of the U.S. National Academy of Sciences, as well as on a number of international assessments, and is currently a Lead Author on the Intergovernmental Panel for Climate Change Fifth Assessment chapter on Human Security. He is incoming chair of the World Economic Forum's Global Agenda Council on Measuring Sustainability.