

Conference speakers

Bahijjahtu Hadiza Abubakar



Engr (Mrs) Bahijjahtu Hadiza Abubakar was born 15 June 1966 in Kaduna, Kaduna State. She is a Mechanical Engineer and also holds an MSc in Environmental Engineering from the University of Leeds in the United Kingdom and specialized training in Climate Change and Energy from Harvard University. She pioneered Renewable Energy on Nigeria for 10 years and is currently the Head of Division, Pollution Control and Environmental Health. She is on the Board of Directors of Access to Renewable Energy (AtRE), a project funded by UNDP and the Bank of Industry, Nigeria. A project that provides financing for renewable energy entrepreneurs to stimulate the sector for rapid growth. She was elected the global Co-Chair for the Climate and Clean Air Coalition (CCAC) to reduce Short-Lived Climate Pollutants in 2012. Part of her responsibilities at the CCAC was fashioning out policies that will help reduce the effects of black carbon, HFCs and methane emissions worldwide. She is particularly interested in ensuring maximum awareness on Short Lived Climate Pollutants (SLCPs) in Africa bringing high level political attention to challenges of indoor air pollution from cooking and lighting. She is leading the new National Clean Air Programme to position Nigeria to lead Africa in the CCAC global campaign with WHO and Norwegian government called “Breathe Life” to curb air pollution worldwide. The success of this initiative got Kaduna State (sixth most polluted city) to roll out new clean air policies that promote clean development. She is on the Steering Committee of the Global Methane Initiative, an international partnership that brings together national governments, private sector entities, development banks, NGOs and other interested stakeholders in a collaborative effort to reduce methane gas emissions and advance methane recovery and use as a clean energy source. Due to her undying love for the rural, she developed the Rural Women Energy Security (RUWES) Initiative in 2013 and has registered over two million women focusing on how to eradicate energy poverty and pollution by empowering women with new skills that promote rural economic opportunities. Engr (Mrs) Bahijjahtu Abubakar has been recognized and applauded worldwide for using her expertise to uplift women and girls while protecting the environment.

Heather Adair-Rohani



Heather Adair-Rohani is the team leader on energy and health at the World Health Organization Headquarters. She has helped in the coordination and development of the WHO guidelines for indoor air quality: household fuel combustion and is currently leading work to support countries in the implementation of these Guidelines through the Clean Household Energy Solutions Toolkit. She also actively participates and represents WHO at various global initiatives focused on health, air pollution and energy like UN Energy, Sustainable Energy for All, Inter-Agency Expert Group on Sustainable Development Goal Indicators, and the Global Strategy for Women, Children and Adolescent Health. She has coordinated a multi-stakeholder survey harmonization process and the expansion of the WHO household energy database, as well as WHO's database on electricity access in health care facilities among other activities aimed at enhancing the evidence for policy-makers and to build country capacity to address air pollution, energy access and related health impacts.

Ahmad Rafay Alam



Ahmad Rafay Alam is a Yale World Fellow and partner at Saleem, Alam & Company, Pakistani law-firm specializing in the energy, water, natural resources and urban planning and infrastructure sectors. Mr Alam has two decades of experience in the areas of environmental, constitutional and corporate law, litigation, public-sector regulation and corporate governance. In the past, Mr Alam has served as Chairman of the Lahore Waste Management Company and Lahore Electric Supply Company and as member of the Punjab Environmental Protection Council and Parks and Horticulture Authority. Mr Alam has also served as the Secretary of the River Ravi Commission constituted by the Lahore High Court and has acted as Amicus Curiae and Local Commission in a number of environment and urban-planning related cases before the High Courts and Supreme Court of Pakistan. Mr Alam has also spent many years on lecturing law, environment and urban planning subjects

at the National Management College, Lahore University of Management Sciences, Lahore School of Economics and Punjab University. Mr Alam serves as an Advisor to Air Quality Asia.

Lujain Alqodmani



Lujain Alqodmani is a medical physician by profession specialized in global health policy. She acts as Co-Chair of World Medical Association Environment Caucus focusing on the link between environment and health and International Officer of Kuwait Medical Association. Dr Alqodmani is the Special Adviser for the Executive Chair of EAT Foundation. She serves in the Health Adaptation Committee of Environment Public Authority in preparation of Kuwait's Second National Determined Contributions Report to United Nations Framework Convention on Climate Change (UNFCCC). She is also the Membership Director of Women in Global Health. Lujain graduated from Kuwait University and earned a Master in International Healthcare Management, Policy and Economics specialized in global health from Bocconi University in Milan.

João Paulo Amaral



João Paulo Amaral, Project Coordinator at Bike Anjo, is co-founder of the Bike Anjo Network (bikeanjo.org). He has a bachelor degree on environmental management at the University of São Paulo and has worked for a sustainable urban mobility since 2008. He is part of the German Chancellor Fellowship programme for tomorrow's leaders from the Alexander von Humboldt Foundation, working with international cooperation on cycling promotion, especially between Brazil and Europe.

Markus Amann



Markus Amann is Director of the 'Air Quality and Greenhouse Gases' program at the International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria. He is coordinating the policy analyses on cost-effective emission control strategies for the clean air and climate policy proposals of the European Commission and heads the 'EMEP Centre for Integrated Assessment Modeling' of the Convention on Long-range Transboundary Air Pollution. He serves at the Science Advisory Panel of the Climate and Clean Air Coalition (CCAC), the Science Panel of the Asian-Pacific Clean Air Partnership (APCAP) and the Climate and Clean Air Commission of the Austrian Academy of Sciences. With a background in Economics and Electrical Engineering, he received his PhD from the University of Karlsruhe, Germany.

Desmond C. Appiah



Desmond C. Appiah, the C40 City Advisor and Chief Sustainability Advisor to the Mayor of Accra, was the Chief Resilience Officer at the Accra Metropolitan Assembly. He coordinates all city programmes aimed at ensuring sustainable city development in areas pertaining to climate change, waste management, road safety, disaster planning and management, with a charge to integrate management structures for enhancing sustainable urban development. Desmond's role as the City Advisor is to lead the City of Accra in developing a Paris Agreement Compliant Climate Action Plan as a part of the city's Deadline 2020 commitment. Desmond also leads the city's partnership with the Bloomberg Initiative on Global Road Safety (BIGRS) and the Partnership for Healthier Cities and represents the Assembly on the Urban Health Initiative with World Health Organization (WHO). With over 20-years' experience in sustainability related projects in manufacturing, academia, forestry, mining, agro-business, and commercial sectors across Europe, USA and Africa, Desmond is the founder Sustainable Ghana Limited, an innovative health, safety, quality and environmental management firm which has supported several small and medium scale industries to assess

and develop proactive management approaches to risks in HSEQ. Desmond holds an MSc (Energy and Sustainable Development) from De Montfort University, Leicester, UK, an MS (Environmental Protection and Safety Management) from St Joseph's University, Philadelphia USA, a BA (Hons) (Geography and Resource Development) from the University of Ghana, a PG Certificate (Group Crisis Intervention) Critical Incidence Stress Management and a First Certificate in Food Safety from The Royal Institute of Public Health. He is a trained health and safety, quality and environmental management systems auditor and a trainer. Desmond enjoys politics, the great outdoors and sports (football and boxing).

Lynn Atuyambe



Dr Atuyambe is an Associate Professor in the Department of Community Health and Behavioral Sciences at the Makerere University School of Public Health, College of Health Sciences. He received his PhD in Public Health Sciences (International Health) from Karolinska Institutet in Stockholm, Sweden in 2009. He has 20 years of experience in research and training. He is the country local Principal Investigator at Makerere University GeoHealth Hub (geohealthhub.org). He is the coordinator for the course Advanced Qualitative Research Methods for Health Sciences, health promotion health education and behavioural change communication, and adolescent sexual and reproductive health. Besides, he has participated in both qualitative and quantitative research projects in various capacities over the years. He is a trainer in qualitative research methods, data collection techniques and analysis. He led the [Situation Analysis and Needs Assessment for Uganda: Air Pollution, Occupational Safety and Health, and Climate Change \(SANA\)](#) pilot study Dr Atuyambe has over to [60 publications in peer reviewed journals](#).

Yewande Awe



Yewande Awe, PhD, is a Senior Environmental Engineer at the World Bank in Washington DC. Dr Awe has worked on projects and analytical activities that address pollution

management and environmental health in various countries including Guatemala, Colombia, Mexico, Peru, India, El Salvador, Argentina and Qatar. Most recently she has been engaged in regionally-focused analytical work on air quality management in Poland, and in Western Balkan countries including Kosovo, Bosnia and Herzegovina and Macedonia. Her current work programme centres on improving air quality monitoring and health estimation of health risks and impacts of air pollution in low- and middle-income countries. This work focuses on harmonization of air quality monitoring methods and procedures in low-and middle-income countries; investigating the potential for application of satellite technology to air quality monitoring in low- and middle-income countries; and estimating health and economic burdens of ambient air pollution. Dr Awe co-led the start-up of the World Bank-administered Pollution Management and Environmental Health multi-donor trust fund and currently works on the air quality management window of the fund. She has co-authored and co-edited several publications on air pollution and health, and environmental management. Dr Awe earned her PhD degree in Environmental Engineering from Imperial College London.

Kalpana Balakrishnan



Kalpana Balakrishnan is a leading environmental health researcher in India serving as the lead investigator in numerous national and international research projects with a focus on air pollution in the ambient, household and occupational environment. She has contributed to several national and international technical assessments concerned with air quality including the Global Burden of Disease and Comparative Risk Assessments (GBD 2000, GBD 2010, GBD 2013), the IARC Monographs for household (2006) and ambient air pollution (2013), the Global Energy Assessment (2009), the World Health Organization Air Quality Guidelines for ambient (2006) and household air pollution (2014). She continues to serve as a WHO expert group member for the Air Quality Guidelines Update and the Global Air Quality Observatory. She currently serves as member of the National Steering Committee on Air Pollution Related Issues for Health Effects for the Ministry of Health Government of India and as Chair for the Environmental Risk Factors Expert Group for the India State level Burden of Disease Initiative. Amongst her notable recognitions include being elected as a fellow of National Academy of Medical Sciences, India and being the recipient of the Public Health Foundation of India award for Outstanding Scientist in Public Health, the Hari Om Ashram Trust Award for Outstanding Scientist administered by the University Grants Commission, Government of India.

HE Hajia Samira Bawumia



HE Hajia Samira Bawumia is the Second Lady of the Republic of Ghana. She is known for her philanthropy through her not-for-profit organization, the Samira Empowerment and Humanitarian Projects (SEHP). Through SEHP, Her Excellency has initiated critical and timely interventions in the areas of health, education and women empowerment. Her Excellency is a Global Ambassador for the Global Alliance for Clean Cookstoves, a public-private partnership hosted by the United Nations Foundation to save lives, improve livelihoods, empower women, and protect the environment by creating a thriving global market for clean and efficient household cooking solutions. Her Excellency in an effort to reduce maternal and neonatal mortality in Ghana has instituted the 'Safe Delivery Project'. In respect of the "Safe Delivery Project", one hundred thousand (100 000) birth kits will be distributed to expectant mothers in their third trimester, in deprived communities across Ghana. She is an advocate for the "Combined Maternal and Child Health Record Book Project", a Ghana Health Service initiative, with support from the Japan International Cooperation Agency (JICA). She is also supporting UNICEF on the 'Nurturing Care Framework for Early Childhood Development', a project focused primarily on childcare. In addition, she is an advocate for the 'Ghanaians against Child Abuse' (GACA) Campaign, a Government of Ghana and UNICEF project. The Second Lady, with support from the United Nations Population Fund (UNFPA), has launched a Coalition of People against Sexual and Gender-based Violence and Harmful Practices (CoPASH). HE Hajia Mrs Samira Bawumia holds a Bachelor of Arts in degree Law and Sociology from the Kwame Nkrumah University of Science and Technology, and a Master of Business Administration (Project Management) from the Ghana Institute of Management and Public Administration (GIMPA).

David R. Boyd



David R. Boyd is the UN Special Rapporteur on human rights and the environment and an associate professor of law, policy, and sustainability at the University of British Columbia in

the Institute for Resources, Environment and Sustainability. He has advised many governments on environmental, constitutional, and human rights policy and co-chaired Vancouver's effort to become the world's greenest city by 2020. His career has included serving as the executive director of Ecojustice, appearing before the Supreme Court of Canada, and working as a special advisor on sustainability for Canadian Prime Minister Paul Martin. He is a member of the World Commission on Environmental Law, an expert advisor for the UN's Harmony with Nature Initiative, and a member of ELAW, the Environmental Law Alliance Worldwide. Boyd is also the author of nine books and over 100 reports and articles on environmental law and policy, human rights, and constitutional law.

Michael Brauer



Michael Brauer is a Professor in the School of Population and Public Health at The University of British Columbia (UBC). He is an Affiliate Professor at the Institute for Health Metrics and Evaluation at the University of Washington. His research focuses on transportation-related and biomass air pollution, the global health impacts of air pollution and the relationships between multiple exposures mediated by urban form and population health. He has participated in monitoring and epidemiological studies throughout the world and served on guideline development and advisory committees to the World Health Organization, the Climate and Clean Air Coalition, the US National Academies, the Royal Society of Canada, the International Joint Commission and governments in North America and Asia. He is an Associate Editor of *Environmental Health Perspectives* and a member of the Core Analytic Team for the Global Burden of Disease. His contributions to environmental health have been acknowledged by a number of awards including awards including the Wesolowski Award from the International Society of Exposure Science, WH Thurlbeck Prize for Research in Lung Disease, the Bastable-Potts Asthma Research Prize, the Distinguished Achievement Award for Overall Excellence from the UBC Faculty of Medicine and several publication awards.

Bert Brunekreef



Bert Brunekreef is a Professor of Environmental Epidemiology at the Institute for Risk Assessment Sciences, Utrecht University. Since early 1990s he has coordinated five EU funded studies (PEACE, TRAPCA, AIRALLERG, AIRNET, ESCAPE) in the field of air pollution, allergy and health. He is a partner in many other international collaborative studies. A PI on three studies funded by the US Health Effects Institute. On several occasions, Bert Brunekreef served as adviser on national and international panels in the field of environmental health, including the Dutch National Health Council, of which he is a member, WHO and the US EPA. Bert Brunekreef is co-author of more than 500 peer reviewed journal articles in the field of environmental epidemiology and exposure assessment. In recent years, he received the ISEE John Goldsmith award (2007), the European Lung Foundation Award (2007), an honorary doctorate of the Catholic University of Leuven, Belgium (2008), the Heineken Prize for Environmental Sciences (2008), and an Academy Professorship of the Dutch Royal Academy of Sciences (2009) to which he also was elected to become a member in 2009.

Julia Bucknall



Julia Bucknall is Director for Environment and Natural Resources at the World Bank. She has worked in every region of the world on operations and knowledge relating to environment, water resources management, climate change and energy. She was the lead author of a flagship publication on water in the Middle East Making the Most of Scarcity and a core team member for the 2010 World Development Report on Climate Change. She has studied at Cambridge University and MIT, where she earned a Master's in environmental policy and planning.

Diarmid Campbell-Lendrum



Diarmid Campbell-Lendrum is the coordinator of the climate change and health programme within the Department of Public Health, Environmental and Social Determinants of Health at WHO headquarters. He has played key roles in the development of the first quantitative estimates of the overall health impacts of climate change, the 2008 World Health Assembly Resolution, and the first three WHO global conferences on health and climate. He also leads the implementation of the WHO workplan on climate change, including a series of projects to pilot health adaptation in vulnerable countries. Diarmid is author of multiple journal papers, reports, and book chapters on the ecology and control of infectious disease, and on the health implications of global environmental change. He is a lead author of the recent Intergovernmental Panel on Climate Change (IPCC) Special Report on Extreme Events, and of the health chapter of the 5th Assessment report of the IPCC.

Gregory R. Carmichael



Gregory R. Carmichael has a BS, MS and PhD in chemical engineering and has done extensive research related to air quality and its environmental impacts. He is currently the Karl Kammermeyer professor of chemical and biochemical engineering at the University of Iowa. His research is focused on air pollution and climate change, where he uses comprehensive computer models and big data to simulate the interactions of air pollutants with weather and climate and to estimate resulting environmental impacts. His models are also used to evaluate effectiveness of various air pollution and climate change mitigation strategies. He has authored or co-authored over 350 scientific publications. He has received numerous awards, including the American Institute of Chemical Engineer's Lawrence K. Cecil Award for outstanding chemical engineering contribution and achievement in the preservation or improvement of the environment. He is a Fellow of the American Institute of Chemical Engineers and a fellow of the American Geophysical Union. He serves on numerous international advisory boards related to climate forecasting and atmospheric science;

including NASA's Earth System Subcommittee and chair of the Environmental Pollution and Atmospheric Chemistry Scientific Steering Committee for the UN World Meteorological Organization.

Thiago Hérick de Sá



Dr de Sa is a technical officer at World Health Organization (WHO-HQ), working with urban health and mobility and health related issues, including the Urban Health Initiative. His main tasks are to develop tools and guidance to support cities and countries on urban health as well as on assessing the health impacts of sector policies and the strengthening of local knowledge on how to integrate health in urban and territorial planning. Prior, Dr de Sa has worked as a researcher on urban health and environmental epidemiology, with a track record of publications in several academic journals, including the Lancet, BMJ, Environmental International and the Pan-American Journal of Public Health. Mr de Sá received a MSc and a PhD in public health from the University of Sao Paulo.
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Carlos Dora



Carlos Dora, MD, PhD, has a career in global public health and environment. He is visiting Professor at the Mailman School of Public Health, Columbia University. Until recently he coordinated the WHO work on health impacts of sector policies (energy, transport, housing, extractive industry) and to prevent diseases due to air pollution. He recently led the development of an Urban Health Initiative to strengthen health systems capacity to achieve health, climate and air quality benefits from urban policies. He helped create a framework for health to contribute to Habitat III New Urban Agenda. Previously he led analyses of health benefits from climate mitigation policies and for health indicators in post-2015 SDGs. He worked to include health into Strategic Environment Assessments and into Development Banks Safeguards. He helped initiate the European Transport Health and Environment

process. Previously he worked at the London School of Hygiene and Tropical medicine, the World Bank and developing new primary health care models in Brazil. He served in many science/policy committees and global partnerships. His MSc and PhD are from the London School of Hygiene and Tropical Medicine and his research includes HIA, perceptions and communication of science and health risks, by scientists, media and politicians.

David T. Dyjack



David T. Dyjack, Dr PH, CIH is Executive Director and CEO of the 7000-member National Environmental Health Association (NEHA), a position he has held since May 2015. Throughout his career Dave has worked in over 50 countries, most recently in the Congo, South Sudan, and post-earthquake Haiti. Under his leadership, NEHA has established a presence in Washington D.C. in support of efforts to influence national policy, launched a new learning management system and new client relations management system, among other association improvements intended to provide NEHA members world-class service. Dr Dyjack is Principal Investigator on two recent externally funded awards from the US Centers for Disease Control and Prevention. The first grant serves to increase capacity of the environmental health profession writ-large, while the second is focused on rebuilding essential environmental health services in the US Virgin Islands. Dr Dyjack earned a doctorate in public health from the University of Michigan, an MSPH from the University of Utah, and is a board-certified industrial hygienist (CIH).

Jean-Luc Eiselé



Jean-Luc Eiselé has worked in the field of medical association management for almost 20 years. He was trained as a biochemist working at the Biozentrum in Basel and the Pasteur Institute in Paris. In 1999, he joined the European Respiratory Society as Scientific Affairs Manager in charge of the Annual Congress and was offered to develop the educational activities, in particular the online portfolio. In 2001 he was nominated Deputy Executive

Director and in 2007 ERS Executive Director. In 2011, he was appointed by FDI World Dental Federation as Executive Director, developing in particular its advocacy work and launching successfully the World Oral Health Day. He joined the World Heart Federation (WHF) as Chief Executive Officer in May 2017.

Kaylee Myhre Errecaborde



Kaylee Myhre Errecaborde DVM Policy PhDc, is a veterinarian and policy PhD candidate at the Humphrey School of Public Affairs. She is working to support infectious disease preparedness and response. Utilizing applied, systems-based policy and evaluation tools, Kaylee works with partners to enhance health programme implementation and achieve intended outcomes. She works specifically on health workforce development projects in Asia, Eastern and Western Africa and Latin America. She is the Workforce Planning and Assessment Lead for the USAID One Health Workforce project and directs the Policy Unit for the Center for Animal Health and Food Safety. She previously worked for the US Congress on global health security and development issues with both the US House Foreign Affairs Committee and later on the US Senate Homeland Security Committee.

Tarek Ezzine



Tarek is a medical student from Tunis, Tunisia. He is the Liaison Officer for public health issues of the International Federation of Medical Students' Associations (IFMSA) representing 1.3 million medical students' worldwide and actively advocating for meaningful youth participation and environment, climate change and health. He delivered several training workshops for medical students' and was part of the Conference of Youth 13 (YOUNGO), the Conference of Parties 23 (UNFCCC) and the Climate and Health Summit (GCHA).

Julian Fisher



Julian Fisher is a senior researcher at Peter L. Reichertz Institute for Medical Informatics, Hannover Medical School (HMS), Germany. He is the focal point for WHO project to develop an eBook on integrating the social determinants of health into health workforce education and training. Part of this work involves curating and moderating policy dialogue through the transformative health workforce education website. Julian is a member of WHO Technical Advisory Group for National Health Workforce Accounts (NHWA). He provided guidance and technical input to the development of the concept and the elaboration of the NHWA Handbook and was principal contributor to the three education modules. He is currently lead of WHO Global Health Workforce Network Data and Evidence Hub thematic working group 3 on education. Julian co-facilitated a Health in All Policies (HIAP) workshop on air pollution, urban health, and sustainability that included a review of current efforts to develop competencies for HIAP and the social determinants of health. He has co-authored two chapters on health workforce education that informed the report High-level Commission on Health Employment and Economic Growth. His research work includes the continued development of lifelong learning systems.

Siobhan Fitzpatrick



Siobhan Fitzpatrick is facilitating the development of an interprofessional Global Competency Framework for Universal Health Coverage for the World Health Organization, involving the collaboration of experts and stakeholders through the Global Health Workforce Network Education Hub. The Framework seeks to bring together a range of existing but fragmented competency-based guidance into a single “adapt and adopt” resource to be used alongside information about the burden of disease, health priorities and effective interventions across the range of promotion, prevention, diagnosis, treatment, rehabilitation and palliative care to ensure that health worker education and training is relevant to the local context. Siobhan joined the WHO from the World Federation for Medical Education,

where her responsibilities included management of the Global Recognition of Accreditation Programme. She started her career in health education in the UK with the Medical and Dental Schools Councils and Association of UK University Hospitals.

Helga Fogstad



Helga is currently the Executive Director of the Partnership for Maternal, Newborn and Child Health, which includes over 1000 member organizations across 192 countries and 10 constituencies. Previously she was Director of the Department for Global Health, Education and Research at the Norwegian Agency for Development. Helga has represented Norway on several international Boards and expert committees, and has been involved with several global initiatives, partnerships and funds related to Global Health. Helga has 25 years of working experience in health planning and development at facility, district and national levels, as well as at international level within multilateral and bilateral agencies. She has also spent much of her life in Africa. She is a health economist and has co-authored several publications related to public health.

Francesco Forastiere



Francesco Forastiere, MD, PhD, Senior Scientist at the Department of Epidemiology, Lazio Region Health Service, Rome, and at the National Research Council (CNR), Palermo, Italy. Visiting Professor King's College, London. Consultant for WHO/Geneva and World Bank/PMHE. Medical background in respiratory physiopathology and in occupational medicine, MSc in Epidemiology (LSHTM) and PhD in Epidemiology (Linköping, Sweden). I have been conducting studies on the health effects of outdoor air pollution in the last three decades and I have been the Principal Investigator (PI) in several EC-funded projects. Author or co-author of more than 500 full papers in the peer-reviewed scientific literature. Temporary Adviser for WHO/EURO and IARC on several occasions. Chief Editor of the Italian Journal of Epidemiology (Epidemiologia & Prevenzione) and Associate Editor of

Environmental Health. I have focused on the application of scientific research findings to a wide range of public health issues, including air pollution, radon, waste disposal, occupational exposure to silica and asbestos, and environmental tobacco smoke.

Howard Frumkin



Dr Howard Frumkin is head of the Our Plant, Our Health initiative at the Wellcome Trust, the largest research funder at the interface of human health, climate change, urbanization, and food systems. He trained as an internist, occupational and environmental medicine specialist, and epidemiologist. He is Professor Emeritus of Environmental and Occupational Health Sciences at the University of Washington School of Public Health in Seattle, where he served as Dean from 2010 to 2016. From 2005 to 2010 he was Director of the National Center for Environmental Health at the US Centers for Disease Control and Prevention. Dr Frumkin's research interests include public health aspects of the built environment, climate change, energy policy, nature contact, and sustainability, and he is the author or co-author of over 250 scientific journal articles, chapters and books. His community and professional activities have included serving on numerous national academies of sciences committees and advisory committees, and on the boards of the Bullitt Foundation, the Seattle Parks Foundation, the US Green Building Council, Physicians for Social Responsibility, the Association of Occupational and Environmental Clinics, the American Public Health Association, the National Environmental Education Foundation, and the Pacific Northwest Diabetes Research Institute.

Fiona Godlee



Fiona Godlee is the Editor in Chief of The BMJ. She qualified as a doctor in 1985, trained as a general physician in Cambridge and London, and is a Fellow of the Royal College of Physicians. She has written and lectured on a broad range of issues, including health and the environment, the ethics of academic publishing, evidence based medicine, access to clinical

trial data, research integrity, open access publishing, patient partnership, conflict of interest, and overdiagnosis and overtreatment. Fiona is honorary professor at the Netherlands School for Primary Care Research (CaRe), honorary fellow of the Royal College of General Practitioners, a senior visiting fellow at the Institute of Public Health at the University of Cambridge, honorary fellow of the Faculty of Public Health and a by-fellow of King's College Cambridge. She is on the advisory or executive boards of the Health Improvement Studies (THIS) Institute, Alltrials, the Peer Review Congress, the International Forum for Quality and Safety and Healthcare, Evidence Live, Preventing Overdiagnosis, the UK Health Alliance on Climate Change and the Climate and Health Council. She was a Harkness Fellow (1994-5), President of the World Association of Medical Editors (WAME) (1998-2000), Chair of the Committee on Publication Ethics (COPE) (2003-5), and PPA Editor of the Year (2014). Fiona is co-editor of Peer Review in Health Sciences. She lives in Cambridge with her husband and two children.

Andy Haines



Andy Haines is Professor of Environmental Change and Public Health at the London School of Hygiene and Tropical Medicine. He was Director of the London School of Hygiene and Tropical Medicine from 2001 to October 2010. He has worked internationally, including in Nepal and the USA and chaired the Scientific Advisory Panel for the 2013 WHO World Health Report. He was a member of the UN Intergovernmental Panel on Climate Change for the 2nd and 3rd assessment exercises and was review editor for the health chapter in the 5th assessment. He was chair of the Rockefeller/Lancet Commission on Planetary Health which published its report in 2015. He has led a number of Lancet series and is a member of several international bodies including the Rockefeller Economic Council on Planetary Health. He has published many papers in high impact journals on topics such as the effects of environmental change on health and the health co-benefits of low carbon policies. He is currently co-investigator on a number of research projects which focus on sustainable healthy food systems, complex urban systems for sustainability and health and the effects of climate change on health.

Barbara Hoffmann



Barbara Hoffmann graduated from the Medical School of Aachen, Germany, in 1993, where she also received a doctoral degree in Lung Physiology in 1996. She worked in pulmonary and internal medicine before she received an MPH from the School of Public Health in Bielefeld, Germany. From 2001 to 2011, she worked at the Institute of Medical Informatics, Biometry and Epidemiology, Medical School of the University of Duisburg-Essen, Germany, where she founded and developed the Unit of Environmental Epidemiology and Clinical Epidemiology. Since 2011 she is Professor of Environmental Epidemiology at the University of Düsseldorf, Germany. Her research focuses on the investigation of acute and chronic cardiopulmonary, metabolic and neurological health effects of air pollution and noise. She specifically examines potential biological pathways of action and investigates the role of multiple exposures and their interactions in causing acute and chronic disease, using epidemiological methods.

Keith Holmes



Dr Keith Holmes is an Education Programme Specialist in UNESCO HQ's Division for Policies and Lifelong Learning Systems. He is jointly coordinating a new international UNESCO & UIL research report on "Lifelong Learning: Policy Implications". From 2016-2017 Keith Holmes led an education policy review in Albania to support alignment with the 2030 Agenda for Sustainable Development. He has co-authored a chapter on 'Transforming the health workforce: unleashing the potential of technical and vocational education and training', and has contributed to several UNESCO projects on skills development, with a specific focus on small island developing states (SIDS). Prior to joining UNESCO in 2011, Keith Holmes worked for a European Union agency, the European Training Foundation, and from 2006 to 2008 he was a Lecturer in the Centre for International Education at the University of Sussex, United Kingdom. He holds a PhD in international and comparative studies in education from the University of Bristol, United Kingdom.

Jens Frølich Holte



Jens Frølich Holte has a Master's degree in economics and business administration from the Norwegian School of Economics and Business Administration (NHH) and a Master's degree in economic history from the London School of Economics (LSE). He was born in the scenic West Coast city of Bergen in 1985 and became politically active in the Young Conservatives at the age of 17. While studying at NHH, he was head of media relations for the biannual student festival and played the piano for the school's male choir. Frølich Holte has broad experience from the executive branch, having been State Secretary to the Minister for EEA and EU Affairs, acting State Secretary to the Minister of Transport and Communications, and political adviser in the Ministry of Climate and Environment. He has covered a diverse range of topics, ranging from the Paris Agreement negotiations and Norway's International Climate and Forest Initiative to rail administration reform. He has been in his current position as State Secretary for International Development in the Ministry of Foreign Affairs since January 2018.

Wei Huang



Wei Huang is a Professor of Environmental Epidemiology, Peking University School of Public Health and Deputy Director, Peking University Institute of Environmental Medicine. She received her Doctor of Science (ScD) degree from Department of Environmental Health at Harvard T.H. Chan School of Public Health in 2003. She then joined the Health Effects Institute in Boston overseeing exposure assessment and environmental epidemiology studies, particularly in Asian cities. Since she joined Peking University in 2007, Dr Huang has served as PIs on multiple studies in exposure assessment and environmental epidemiology through collaborations with researchers with interdisciplinary expertise and from multi-countries. Her research focuses on exposure assessment, air pollution attributed effects and risks of chronic diseases and in vulnerable, underlying pathophysiologic mechanisms, and health intervention strategies. She also teaches graduate courses on environmental epidemiology and exposure assessment methodology. In recent years Dr Huang has served

as advisors on national and international panels in environmental health, including WHO, IARC, National Health Commission and Ministry of Ecology and Environment of China.

Sonu Jain



Sonu Jain is Senior Communications Officer at The World Bank, based in Washington DC. She leads advocacy and communications on pollution and natural resource economics in the Environment and Natural Resource Global Practice. Prior to her work at the World Bank, she was Senior Editor at The Indian Express, a national newspaper based in New Delhi, writing extensively on pollution issues in India, where her campaign on air pollution won her journalism awards. She has more than 20 years of experience in communications with a focus on development, climate change, and environment.

Dorota Jarosinska



Dorota Jarosinska MD, PhD is a specialist in public health with 25 years of experience in environmental health at national and international levels. At the WHO Regional Office for Europe, European Centre for Environment and Health in Bonn, she leads a programme on Living and Working Environments, covering the health aspects of air quality, chemical safety, noise, and workers' health. She completed a postgraduate training on Advanced Environmental Sanitation in the Netherlands, and a training in environmental health for physicians in Poland. For ten years, she was leading the first unit of environmental medicine in Poland. She was a Fulbright scholar at the National Institute of Environmental Health Sciences, US. For nine years, she worked at the European Environment Agency on environment and health issues. Authored several scientific papers and contributed to the reports by EEA, WHO, and UNEP, including Synthesis of the European Environment State and Outlook, and the EEA/JRC Environment and Health report. She is a Fellow of the Collegium Ramazzini.

Génon K. Jensen



Génon K. Jensen is the Founder and Executive Director of the Health and Environment Alliance (HEAL), with 20+ years of experience in health sector engagement, advocacy and strategy around environmental health issues. She has been a member of the World Health Organization's European Environment and Health process since 2000, and member of the WHO Europe Health in Climate Task Force (HIC). She is a co-founder and board member of the Global Climate and Health Alliance (GCHA). She currently sits on the WHO/CAAC Health Task Force to share and increase health evidence and action on tackling air pollution. In 2014, Génon received a Clean Air in London Award. The Health and Environment Alliance (HEAL) is the leading not-for-profit organization addressing how the environment affects human health in the European Union (EU) and beyond. HEAL works with its members to shape laws and policies that promote planetary and human health and protect those most affected by pollution, and raise awareness on the benefits of environmental action for health. Génon frequently contributes articles on environmental health policy, including on children's health, climate change, pesticides, mercury, endocrine disrupting chemicals (EDCs) to various European and international specialist publications including *The role of civil society and organisations* (Oxford Textbook of Nature and Public Health, 2018), "How to Deliver the Most Important Public Health Treaty of the Century" (Annals of Global Health, 2015). She is also the author of *Acting NOW for better health: A 30% reduction target for EU climate policy* (2010), *The Unpaid Health Bill: How coal power plants make us sick* (2013).

Josh Karliner



Josh Karliner is Health Care Without Harm's (HCWH) International Director of Program and Strategy. Based out of San Francisco, California, he has coordinated HCWH's global work since 2005. In this capacity he has led the creation and development of HCWH's Global Green and Healthy Hospitals Network. He also led HCWH's global mercury campaign, which, in collaboration with the World Health Organization, helped win the global phase-out of

mercury-based medical devices through the Minamata Convention. Today, among other efforts, he is leading HCWH's worldwide efforts on health and climate. Josh has more than 30 years of experience working on international environmental and human rights issues. He is author of two books and a wide variety of academic and popular publications on global environmental and health policy, including the recent World Bank report on "Climate Smart Health Care." HCWH is an international nongovernmental organization (NGO) that works to transform health care worldwide so that it reduces its environmental footprint, becomes a community anchor for sustainability, and a leader in the global movement for environmental health and justice. HCWH works through regional offices in Asia, Europe, Latin America and the United States, as well as through country-level partnerships with national organizations in Australia, Brazil, China, India, Nepal and South Africa. HCWH has a comprehensive set of partnerships with health organizations, health professionals, international organizations and government ministries, together with a global network of more than 1000 institutions representing more than 32 000 hospitals and health centres in 51 countries worldwide.

Narges Khanjani



Narges Khanjani is an Environmental Epidemiologist working at the Department of Epidemiology and Biostatistics and the Department of Environmental Health, at the School of Public Health, Kerman University of Medical Sciences (KMU), Kerman, Iran. She is also a member of the [Iranian Epidemiology Association](#) and a member of the Iranian Association for Environmental Health. Dr Khanjani has conducted extensive research about air pollution, climate and health in different Iranian cities. She is also an Adjunct Research Fellow at the Monash Centre for Occupational and Environmental Health, School of Public Health and Preventive Medicine, Monash University, Melbourne, Australia; a member of the [International Society for Environmental Epidemiology \(ISEE\)](#) and a member of the [International Epidemiological Association \(IEA\)](#). Dr Khanjani is currently serving as the Co-Chair of the Eastern Mediterranean Chapter of the International Society for Environmental Epidemiology (ISEE).

Michal Krzyzanowski



Michal Krzyzanowski, is an environmental epidemiologist, holding honorary position of a Visiting Professor at the Environment Research Group of the King's College London. Until his retirement in August 2012, he was a Head of the WHO European Centre for Environment and Health in Bonn. Before joining WHO in 1991, Dr Krzyzanowski conducted epidemiologic research on health effects of air pollution and other environmental factors in Poland (at the National Institute of Hygiene in Warsaw), in the United States and in France. He is an author of more than 200 scientific publications and a recipient of the 2013 John R. Goldsmith Award for his contributions to the knowledge and practice of environmental epidemiology. He holds MSc in Physics from Warsaw University and ScD and PhD (Dr.hab) in Epidemiology from National Institute of Hygiene, Warsaw, Poland.

Arvind Kumar



Professor (Dr) Arvind Kumar is the pioneer of super-speciality chest surgery in India and Vascular Robotic-Surgery in Asia. He did his education from India's premier medical college, All India Institute of Medical Sciences (A.I.I.M.S.), New Delhi, a 2000-bed hospital, where he spent 30 years of his career. Currently, he is Chairman – Centre for Chest Surgery and Director – Institute of Robotic Surgery at Sir Ganga Ram Hospital, New Delhi. Disturbed to see the increasing incidence of black spots on lungs (even in teenagers), he founded the Lung Care Foundation (www.lcf.org.in), a not-for-profit organization working towards “Care & Cure of 2.6 Billion Lungs in India”. LCF plans to achieve this through awareness and advocacy towards clean air by highlighting the health ill-effects of air pollution, and improving the healthcare services towards better lung health. Dr Kumar is also the President-Elect for Association of Surgeons of India, an apex body of over 30 000 surgeons from India. Honourable President of India conferred on him, Dr B.C. Roy Award for “Eminent Medical Person”, the highest recognition in India for doctors. He is an active partner of

Health Care Without Harm, an international organization that works to address the health impacts of air pollution and climate change.”

Nino Künzli



Nino Künzli is Deputy Director Swiss Tropical and Public Health Institute (Swiss TPH), Basel, and Dean of the Swiss School of Public Health (SSPH+), Switzerland. Professor for Public Health University of Basel. With a MD from the University of Basel and both a MPH and a PhD from University of California Berkeley (USA), Nino Künzli has a 27-year record of research in environmental epidemiology, reflected in some 400 peer reviewed articles, cited >15 000 times. The main focus is on ambient air pollution and its cardiorespiratory health effects. His air pollution research includes exposure science, epidemiologic research and the integration of both into health impact assessment to serve policy-makers. After the PhD he returned to Basel to continue research. Appointed as Associate Professor to the University of Southern California he worked with the Southern California Children’s Health Study (2002–2005). He received an ICREA Professor position in Barcelona to join the Centre for Research in Environmental Epidemiology (2006–2009), now ISGlobal. He regularly serves on policy-relevant committees such as in the WHO Guideline Development Group for the update of the Air Quality Guidelines or as President of the Swiss Federal Commission on Air Hygiene – the advisory board of the Swiss Government. Künzli is Co-Editor-in-Chief of the International Journal of Public Health, owned by SSPH+ www.ssphplus.ch. Künzli leads SSPH+ – a foundation of eight Swiss Universities.

Amalia Laborde



Amalia Laborde is a medical doctor, clinical toxicologist, and occupational medicine specialist. She is the Head Professor of Toxicology at the Faculty of Medicine, Republic University of Montevideo, Uruguay, and Director of the Department of Toxicology at the University Clinical Hospital. She has expertise in clinical, occupational and environmental

toxicology and has worked for the Montevideo Poison Control Center and the Occupational Toxicology Unit for more than 20 years. In 2010 she started the Pediatric Environmental Unit in collaboration with the Primary Health Care Network of the State Health Services Administration. She has conducted studies and authored journal articles and book chapters on clinical toxicology and human environmental toxicology. Dr Laborde has been invited as a faculty member and lecturer at numerous scientific events in Latin America and has collaborated as temporary adviser with PAHO/WHO initiatives on lead poisoning and other metals, pesticides, environmental health history, air pollution and children environmental health training package for health professionals. She directs the postgraduates medical professionals fellowship in toxicology and is a faculty member of the Environmental Engineering Master's and the Public Health Diploma. Dr Laborde is a Collegium Ramazzini fellow, former committee member of the Uruguayan Society Toxicology, and is Vice President of the Iberoamerican Society of Environmental Health.

Philip J. Landrigan



Philip J. Landrigan, MD, MSc is Professor of Biology and Director of the Global Public Health Program at Boston College and Professor Emeritus of Preventive Medicine and Pediatrics in the Icahn School of Medicine at Mount Sinai. For four decades, Professor Landrigan has been a thought leader in environmental medicine. His early studies of lead poisoning demonstrated that lead is toxic to children even at very low levels and contributed to the US government's decision to remove lead from paint and gasoline, actions that reduced population mean blood lead levels in the USA by more than 90%. A landmark study he led in the early 1990s at the National Academy of Sciences defined children's unique susceptibilities to pesticides and other toxic chemicals and catalysed fundamental revamping of US pesticide policy. He guided EPA in establishing the Office of Children's Health Protection. In New York City, Professor Landrigan has directed medical and epidemiologic follow-up of 20 000 9/11 rescue workers. Since 2015, he has co-chaired the Lancet Commission on Pollution & Health whose 2017 report showed that pollution causes 9 million deaths annually and is an existential threat to planetary health. To continue the work of the Lancet Commission on Pollution & Health Professor Landrigan directs the Global x Observatory on Pollution and Health at Boston College. Professor. Landrigan graduated from Boston Latin School (1959), Boston College (1963), Harvard Medical School (1967) and the London School of Hygiene & Tropical Medicine (1977). He completed a residency in paediatrics at Children's Hospital Boston. He trained in epidemiology at the US Centers for Disease Control and Prevention and served for 15 years as a CDC epidemiologist. He is Editor-in-Chief of the Annals of Global Health.

Charlotte Marchandise



Charlotte Marchandise has been working as coordinator, communication officer and project manager in the corporate world and social and environmental NGOs. She is international expert in various fields, publics and authorities (politicians, public health stake-holders, migrants, doctors, volunteers, students, seniors). In 2014, she has been elected as civil society Deputy Mayor for Health of the city of Rennes, France and President of the WHO Healthy Cities French Network. She is also co-chair of GUAPO, Global Urban Air Pollution Observatory since 2017. She defends a whole-of-government and whole-of-society approach. She developed a local policy of health promotion, health equity and environmental health with a systematic democratic point of view in order to empower inhabitants. She advocates for city diplomacy and health in all policies and works at organizing cooperation in between the cities and with the ministries, the universities and the grassroots movements, through collective intelligence and the Sustainable Development Goals global agenda.

Nanoot Mathurapote



Nanoot Mathurapote has been working at Thailand's National Health Commission Office (NHCO) since 2008. As head of the Global Collaboration Unit, she is in charge of creating and expanding collaboration with international partners to advocate public participation in the policy process and health in all policies approach from Thailand's experience, namely the process of health assembly, health impact assessment and health charter. In addition to working in the health area, she has a Master's degree in social anthropology from the University of Kent, United Kingdom and a Bachelor's degree in mass communication from Chulalongkorn University, Thailand. During her work at NHCO, she obtained certificates of participation in the global health diplomacy workshop in 2012 and health in all policies training for trainers in 2015. Before joining NHCO, she worked as the project coordinator for the 3rd Gross National Happiness Conference in Thailand in 2006–2007 and as programme

assistant at United Nations Development Programme at the Thailand country office from 2004 to 2006.

Gina McCarthy



Gina McCarthy's 35-year career in public service has been dedicated to environmental protection and public health. As Administrator of the US Environmental Protection Agency under President Barack Obama, she was the nation's leading advocate for common-sense strategies to protect public health and the environment, including efforts to address the challenge of climate change and ensure the protection of the country's water resources. Her leadership led to significant federal, state, and local actions on critical issues related to the environment, economic growth, energy, and transportation. Since leaving Washington, McCarthy has been a fellow at Harvard's Kennedy School of Government's Institute of Politics and the Menschel Senior Leadership Fellow at Harvard's T.H. Chan School of Public Health and joined Pegasus Capital Advisors, a private equity firm, as an operating advisor focused on sustainability and wellness investments. McCarthy now also serves as Professor of the Practice of Public Health in the Department of Environmental Health at Harvard's T.H. Chan School of Public Health and Director of Harvard Chan's Center for Climate, Health and the Global Environment, leading the development of the School's strategy in climate science, health, and sustainability.

Sylvia Medina



Dr Sylvia Medina is an epidemiologist dedicated to improving public health through research on the effects of air pollution on health, with special emphasis on the practical application of her work. In particular, the projects she coordinates seek to understand and cross the last mile that too often separates scientists and their findings in this area from the minds and actions of policy-makers, health professionals and the general public. She currently coordinates the 20 year-old French Surveillance Programme on Air Pollution and Health at

the Direction of Environmental Health of the French Public Health Agency (Santé publique France) in Paris. Her work has included the APHEKOM (Improving Knowledge and Communication for Decision-Making on Air Pollution and Health in Europe) project, which was designated one of the European Commission's "Best Projects Funded by the Health Programme 2008–2013", www.aphekom.org. She previously coordinated European and International activities on Environmental Health at the French Institute for Public Health Surveillance (InVS), and health impact assessments of different environmental risk factors under the WHO-EC ENHIS programme from 2004 to 2007; the APHEIS project on air pollution and health involving 26 European cities from 1999 to 2004; and ERPURS in Paris, the first surveillance programme on air pollution and health, from 1992 to 1997. Dr Medina participates regularly in European and international public health and research projects, such as ACHIA, AIRNET, APHEA, INTARESE, PHASE, PHEWE, TRIPLE-S, among others. After earning her MD at the University of Malaga, Spain, Dr Medina received her MSc in epidemiology from McGill University in Montreal, Canada, and her PhD in public health from René Descartes University in Paris. She won the Epidaure Prize for Research in Medicine and Ecology in 1996, and the "Generation 2000 Doctors Prize," awarded to her for enabling the general public to better understand scientific information on environmental health. [Relevant publications.](#)

Sumi Mehta



Sumi Mehta, MPH PhD is Senior Epidemiologist, Global Environmental Health. She has over 17 years of experience in air pollution and health. She has expertise in epidemiology, exposure assessment, comparative risk assessment, and cost-effectiveness analysis, extensive field experience in South, and South-East Asia, and has also worked in Africa, East Asia, and Latin America. Previously, she has served as the Senior Director of Research and Evaluation at the Global Alliance for Clean Cookstoves, lead scientist for the Health Effects Institute's international program, and a health policy analyst in the Evidence and Information for Policy group of at WHO.

Lida Morawska



Lidia Morawska is a Professor in the School of Chemistry, Physics and Mechanical Engineering, Faculty of Science and Engineering, Queensland University of Technology (QUT) in Brisbane, Australia, the Director of the International Laboratory for Air Quality and Health (ILAQH) at QUT, which is a WHO Collaborating Centre, and the Director in Australia for the Australia–China Centre for Air Quality Science and Management (ACC–AQSM). She conducts fundamental and applied research in the interdisciplinary field of air quality and its impact on human health and the environment, with a specific focus on science of airborne particulate matter. Professor Morawska is a physicist and received her doctorate at the Jagiellonian University, Krakow, Poland for research on radon and its progeny. Professor Morawska is an author of over 700 journal papers, book chapters and conference papers. She has also been involved at the executive level with a number of relevant national and international professional bodies and has been acting as an adviser to the World Health Organization. She is a past President of the International Society of Indoor Air Quality and Climate.

Pierpaolo Mudu



Pierpaolo Mudu is a statistician/geographer that has worked 10 years for WHO-EURO Environment and Health Center in Rome, seven years in the Bonn European Environment and Health Center and for one year at WHO-HQ in Geneva. His most recent work includes the coordination of AirQ+, the software that calculates the impacts of air pollution and health, several impact assessment of environmental policy interventions in various countries and cities and the development of the case studies in Accra (Ghana) and Kathmandu (Nepal) for the Urban Health Initiative. He is part of the steering committee of for the Air Quality Guidelines. He is also coordinating the development of a QGIS plug-in (GreenS+) for the assessment of the impacts of green spaces on health. Example of publications are: Ostro et al (2018) A: Assessing the recent estimates of the global burden of disease for ambient air

pollution: Methodological changes and implications for low- and middle-income countries. *Environmental Research*, 166: 713–725; Egorov et al (2016) *Urban Green Spaces and Health* (World Health Organization, European Centre for Environment and Health, Bonn, Germany; [Human Health in Areas with Local Industrial Contamination \(2014\)](#); [Health Co-benefits of Climate Change Mitigation: Transport Sector](#). Geneva: World Health Organization (2011)

María P. Neira



Dr María P. Neira is a Spanish national who holds a degree in Medicine and Surgery (University of Oviedo, Spain), and a Master's degree in Public Health from the Université Pierre et Marie Curie, in Paris, France. She specialized in Endocrinology and Metabolic Diseases at the Université René Descartes, then in Nutrition at the Conservatoire National d'Arts et Métiers, both in Paris, and she obtained an International Diploma in Emergency Preparedness and Crisis Management from the University of Geneva, Geneva, Switzerland. Dr Neira is the Director of the Department of Public Health and Environment at the World Health Organization (WHO). Previously, between September 2002 and August 2005, she was President of the Spanish Food Safety Agency and Vice Minister of Health and Consumer Affairs in Spain. Dr Neira was appointed in 1999 as Director of the Department of Control, Prevention and Eradication at WHO. Prior to that, Dr Neira had been working for WHO in Geneva since 1993, as Coordinator of the Global Task Force on Cholera Control. Before joining WHO, Dr Neira worked as Public Health Adviser in the Ministry of Health in Mozambique from 1991 to 1993. Earlier, in Kigali, Rwanda, she was a UN Public Health Advisor/Physician on assignment from the United Nations Development Programme (UNDP). From 1987 to 1989, Dr Neira was in Salvador and Honduras as Medical Coordinator for Médecins sans Frontières. Dr Neira started her professional career with three years in endocrinology and nutrition in the Necker Hospital and Hôpital Saint Louis in Paris from 1984 to 1987. Among other distinctions, Dr Neira has been awarded the Médaille de l'Ordre national du Mérite by the Government of France.

Mark J. Nieuwenhuijsen



Mark J. Nieuwenhuijsen is a world leading expert in environmental exposure assessment, epidemiology, and health risk/impact assessment with a strong focus and interest on healthy urban living. He has experience and expertise in areas of all-cause mortality, respiratory and cardiovascular disease, mental health and cognitive function, cancer and reproductive health, and exposure measurement and modelling of indoor and outdoor air pollution, green space, UV exposure, noise, temperature and physical activity, using new technology such as GIS, smartphones, personal sensors and remote sensing. He leads the international [TAPAS study](#), examining the health impacts of active transport in six European cities and the EC-funded [PHENOTYPE study](#), examining the relations between green space and health, and the ISGlobal funded SUMA HIA project on health impact assessment in low and medium income countries. He is a co-investigator in [ICEPURE](#), that examines exposure to and health effects of solar UV exposure, ESCAPE (www.escape-project.eu) (and related (VE3SPA), that examines the long-term health effects of air pollution, NIH-funded CAVA which aims to validate smartphone based data collection methods, EC-funded [CITISENSE](#) that aims to empower citizens using smartphone technology, EC-funded [HELIX](#), that examines the early life exposome and childhood diseases, EC-funded [EXPOsOMICS](#) that examines the air pollution and water exposome and health, the EC-funded [PASTA study](#), which promotes active transportation through sustainable transport, the EC-funded BlueHealth project evaluating the relationship between blue space and Health and the EC-funded LifeCycle project on birth cohort coordination in Europe.

Jane Nishida



Jane Nishida is the Principal Deputy Assistant Administrator for EPA's Office of International and Tribal Affairs (OITA), having previously served as the Director of the Office of Regional and Bilateral Affairs within OITA. In her current capacity, she leads EPA's international and tribal portfolios, and is responsible for the full range of EPA's environmental policy

development and programme implementation in tribal lands and in sovereign nations outside of the United States. Nishida represents EPA within the United States Government and works closely with tribal governments, foreign governments, international organizations, and other key stakeholders on matters relating to the environment. Nishida has 30 years of environmental experience working in federal and state government, and international and nongovernmental organizations. Prior to joining EPA in 2011, Nishida served as the Senior Environmental Institutions Specialist at the World Bank. From 1995 to 2002, she was appointed as the Secretary of Maryland's Department of the Environment. She also held the position of Maryland Director of the Chesapeake Bay Foundation, a nonprofit organization in the region. Nishida received a Bachelor of Arts in international affairs from Lewis and Clark College in Portland, Oregon and a Juris Doctorate from Georgetown Law Center in Washington, D.C.

Fiona O'Connor



Fiona O'Connor is a scientific manager at the Met Office Hadley Centre and leads a team investigating the role of atmospheric composition in climate and the impact of climate on atmospheric composition, including air quality. She has played a pivotal role in the development and application of the United Kingdom Chemistry and Aerosol (UKCA) model since its inception. She is a member of the UKCA governance board and teaches as part of the UKCA annual training workshop. Fiona is co-leading the UK's contribution to the Aerosol and Chemistry Model Intercomparison Project, results from which will feed into the next Intergovernmental Panel on Climate Change (IPCC) assessment report. She also represents the international composition modelling community on the World Meteorological Organization's Scientific Advisory group on deposition and is a member of the editorial board of the Copernicus journal Geoscientific Model Development. She has co-authored over 50 papers, has a h-index of 22, has contributed to 3 books, and was a contributing author on the IPCC's 5th assessment report. Currently, she is a work package lead in a Horizon 2020 EU project (CRESCENDO), a co-Investigator on a UK-funded project quantifying uncertainty in composition models, and co-supervises four PhD students.

Christopher Sola Olopade



Sola Olopade, MD, MPH, FACP, FCCP is Professor of Medicine in the Department of Pulmonary and Critical Care Medicine at the University of Chicago. His research addresses the impact of environmental and genetic factors on asthma and evaluates the extent, impact and preventive strategies for mitigating the health effects of exposure of women and children to household air pollution from biomass in rural and urban settings in vulnerable populations. He recently completed the first randomized controlled intervention investigating the impact of transitioning from kerosene and firewood to ethanol on pregnancy outcome in Nigerian women. He is a fellow of the American College of Chest Physicians (FCCP) and the American College of Physicians (FACP) and served as American College of Chest Physicians Governor for the State of Illinois from 2006 to 2010. He is a superb mentor and has been recognized repeatedly by his peers as a top doctor in pulmonary diseases.

Tolu Oni



Tolu Oni is a Public Health Physician Scientist and urban epidemiologist at the University of Cambridge Medical Research Council Epidemiology Unit, UK. She was until recently Associate Professor in Public Health at the University of Cape Town. Her transdisciplinary urban health research aims to provide evidence to support development and implementation of healthy public policies in Africa. Research activities include systems for health projects: investigating how urban systems and exposures can be harnessed for health; and health systems projects: integrated health systems responses to changing patterns of disease and multimorbidity in the context of urbanization. She has published over 40 manuscripts in international journals, and has given presentations at international academic (urban health, HIV, TB) and non-academic meetings including the United Nations High Level Political Forum for Sustainable Development, New York; and the World Economic Forum (WEF) annual meeting, Davos 2018. She serves on several advisory boards including Future

Earth and the African Academy of Science Open Research Platform; and is an editorial board member of Lancet Planetary Health, Cities and Health, and the Journal of Urban Health. Profiled in the Lancet journal in 2016, she is a 2015 Next Einstein Forum Fellow, and is co-Chair of the Global Young Academy.

Abdalla Said Ahmed Osman



Abdalla Said Ahmed Osman is a public health professional with extensive national, regional and international health development experiences. He served as a senior national adviser to the Government of Sudan in the capacity of minister, undersecretary and director of planning. Dr Said Ahmed has played a leading role in health system reform in Sudan. He continuously aims at rapidly boosting the production of health workers, particularly in underserved and conflict-affected areas. He has a leadership role in tackling infectious diseases and emerging epidemics by establishing national surveillance system with rapid mobilization and field deployment of expert. Moreover, he has a leadership role and is a change agent in the area of evidence-based policy formation via consensus-building and creation of a health policy advisory forum with participation of senior health officials. Other specific initiatives he is involved with include; launching a national campaign to promote the image of public health professions and establishing the Academy of Health Sciences and Public Health Institute. He led the review of the following EU-funded projects: National Health Policy 2013 and the assessment of health finance system in Sudan 2014; development of the National Health Finance Policy 2015; the development of the Global Health Strategy for Sudan 2013–2015; the assessment of Health Policy System in Sudan 2014 and the development of a strategy to strengthen primary health care through a family health approach. He also had a leading role in the development of policy system strengthening in Sudan 2015 which was also funded by an EU project. In addition, he initiated and led the development of Health in All Policy (HiAP) road map. Dr Said Ahmed played an important role in establishing the Global Network for HiAP (GNHiAP) and now is a member of the Executive Committee of GNHiAP.

Pam Pearson



Pam Pearson is the Director and Founder of the International Cryosphere Climate Initiative. She is a former US diplomat with 20 years' experience working on global issues, including climate change and the Kyoto Protocol, HIV/AIDS and public health, nonproliferation, and the environmental/social impact of multilateral development banks. In 2006, she resigned to protest diminished emphasis on global environment, health and development policies. She subsequently worked with a variety of organizations and governments on Arctic climate change, especially the potential benefits from reducing short-lived climate forcers; culminating in Arctic Council ministerial action in 2009. She founded ICCI in 2010, immediately after COP-15. ICCI brings a science-policy focus to the rapid changes occurring in not just the Arctic, but all cryosphere (snow and ice) regions throughout the globe; stressing the importance of cryosphere preservation to the global climate system, as well as human health and food security; and supporting intensified mitigation to prevent irreversible global change. ICCI participates in a variety of forums, including the UNFCCC, UN Environment, the CCAC and UNECE/CLRTAP. ICCI also designs and implements concrete mitigation projects with combined climate and development benefits for near-cryosphere regions, with current projects in the Arctic, Himalayas and Andes.

Rick Peltier



Rick Peltier is an environmental health scientist with training in atmospheric chemistry, air quality instrument design and development, and he has expertise in air pollution exposure assessment. His doctoral studies were completed in the School of Earth and Atmospheric Sciences at the Georgia Institute of Technology in 2007. For the past 10 years, his research has taken a specific focus on assessment of air pollution exposure in the underserved parts of the world, including directing research projects in Nepal, India, Kyrgyzstan, Ghana, and in indigenous communities across North America. This research uses both traditional research instrumentation and low-cost approaches, and collection of human biological samples to

identify components of air quality responsible for health effects. A recent focus in his research group is in science communication and outreach, and this has led to a rapidly increasing number of layperson publications on air quality. He was a Rosenblith New Investigator Awardee from the Health Effects Institute, is the deputy editor in chief of the Journal of Exposure Science and Environmental Epidemiology, and co-edited a statement paper on the use of low cost air quality sensors for the World Meteorological Organization. Current funding sources include the Commonwealth of Massachusetts, the United States Environmental Protection Agency, and the Institute for Advanced Sustainability Studies.

Helen Petach



Dr Helen Petach is a Senior MCH Science Advisor for US Agency for International Development in the Bureau of Global Health. Helen is the Bureau of Global Health's point of contact for household air pollution and advises on health commodity supply chain and pharmaceutical quality issues. She has over 20 years of R&D and management experience in data analytics, health diagnostics, and clean energy at the University of Waikato (New Zealand), Hewlett-Packard, SomaLogic, and USAID. Her expertise is in quantitative approaches and evidence driven policy and programme development. She holds a PhD in Chemistry (Cornell University).

Annette Peters



Annette Peters directs the Institute of Epidemiology at the Helmholtz Zentrum München – German Research Center for Environmental Health and is full Professor of Epidemiology at the Ludwig Maximilian's Universität München, Germany. She studied biology and mathematics in Germany and epidemiology at the Harvard School of Public Health, Boston, USA. She was among the first examining the role of ultrafine particles in epidemiological studies and pioneered work identifying the link between ambient particulate matter and cardiovascular disease. She was the president of the ISEE in 2012 and 2013. Today, she

heads the population-based KORA cohort initiated in the mid-80s in Augsburg, Germany and is a principle investigator of the German National Cohort, responsible for building its central biorepository. Her research interest is the integrated the assessment of environmental exposures with chronic disease epidemiology and biomedical approaches utilizing high throughput technologies such as genome-wide methylation or metabolomics. She has served on numerous scientific panels including the group drafting the global guidelines on air pollution published in 2005 by the World Health Organization, a panel advising the International Olympic Committee during the Beijing Olympics in 2008 and chaired a grant panel of the European Research Council.

Michael Pinsky



Michael Pinsky is a British artist whose international projects have created innovative and challenging works in galleries and public spaces. He has undertaken many residencies that explore issues which shape and influence the use of our public realm. Taking the combined roles of artist, urban planner, activist, researcher, and resident, he starts residencies and commissions without a specified agenda, working with local people and resources, allowing the physical, social and political environment to define his working methodology. His work has been shown at: TATE Britain; Museum of Contemporary Art, Chengdu; Saatchi Gallery; Victoria and Albert Museum; Institute for Contemporary Art, London; La Villette, Paris; BALTIC, Gateshead; Centre for Contemporary Art, Glasgow; Modern Art Oxford, Milton Keynes Gallery, Cornerhouse, Manchester; Liverpool Biennial, Centre de Création Contemporaine, Tours; Armory Center of the Arts, Los Angeles and the Rotterdam International Architectural Biennial. His most recent solo exhibition was at Somerset House, London. Dr Pinsky graduated from the Royal College of Art. He has received awards from the RSA, Arts Council England, British Council, Arts and Business, the Wellcome Trust and his exhibition Pontis was shortlisted for the prestigious Gulbenkian Museums Award.

Jem Porcaro



Jem Porcaro is the UN Foundations' Senior Director for Energy Access. In this role, Jem leads the Foundation's efforts to expand access to modern energy services in developing countries, and builds synergies with UN agencies and other key multilateral partners, especially Sustainable Energy for All. Jem has 15 years of experience working on global development, energy and climate issues. Previously, he worked with Nexant, an energy consulting company, in its government clean energy practice in Asia, where it advised governments and multilateral development organizations on clean energy finance and policy. Jem also worked for four years in the United Nations Development Programme (UNDP), helping to oversee its global energy portfolio and elevate clean energy access on the global development agenda. Jem received his master's degree in international affairs, with a concentration in international energy policy and management, from Columbia University and a bachelor of science in civil engineering from Tufts University.

Elizabeth Press



Elizabeth Press is the Director of Planning and Programme Support at the International Renewable Energy Agency (IRENA). As part of her portfolio, Ms Press leads the development of IRENA's Work Programme and strategic documents, and programmatic reporting to governing bodies. She oversees the diversification of the Agency's resource base to ensure alignment with the Agency's mandate and strategic direction. Ms Press represents IRENA in global or thematic entities and initiatives, such as UNFCCC Global Climate Action. She is also IRENA's focal point in Europe; namely, at the EC level and with Germany as Host Country. Ms Press joined IRENA in November 2010 and was a member of the team that led the transition from the Preparatory Commission to becoming a full-fledged Agency in April 2011. Prior to joining IRENA, Ms Press had some 18 years of international experience, mainly with the United Nations, in the field of development, humanitarian assistance, rule of law and political affairs. She has served in HQ duty stations in New York, USA and Geneva,

Switzerland as well as in different field locations, including Rwanda, Kenya, Burundi, Democratic Republic of Congo, Cambodia, and Kosovo. Ms Press holds an MA in public administration.

Annette Prüss-Ustün



Annette Prüss-Ustün, PhD, MPH, D.Eng., is an epidemiologist, public health specialist and chemical engineer working in the area of environmental health since 25 years, and since 20 years in WHO, in the Department of Public Health, Environmental and Social Determinants of Health. She has been developing methods for quantifying health impacts from various environmental and occupational risks, and more generally to synthesizing the evidence on various environmental risks and health to support action. Her areas of expertise include health impacts from environmental risks such as water, sanitation and hygiene, air pollution, and lead and other chemicals; environmental determinants of trachoma, community-based methods for creating healthy environments, needlestick injuries in healthcare workers, and healthcare waste management.

Hon. Syed Naveed Qamar



Hon. Syed Naveed Qamar belongs to a renowned political family of Sindh. His grandfather, served as the first Speaker of the Sindh Assembly in 1947; his father was Deputy Speaker of Sindh Assembly, and Senator during Prime Minister Zulfiqar Ali Bhutto's government. Hon. Syed Naveed Qamar started his political career as Member Sindh Assembly in 1988, and became Minister for Information. In all subsequent general elections h1990, 1993, 1997, 2002, 2008 & 2013, he has continuously won his seat as a Member of National Assembly of Pakistan. In the governments of Prime Minister Benazir Bhutto and Prime Minister Yusuf Reza Gilani, Hon. Qamar has held every important portfolio; serving as Federal Minister of Defense, Federal Minister of Finance, Federal Minister of Water & Power, Federal Minister of Petroleum & Natural Resources and Federal Minister of Privatization. Hon. Qamar

currently holds the position of Opposition Parliamentary Leader in the National Assembly of Pakistan and Member Central Executive Committee in the Pakistan People's Party; the country's progressive party. Hon. Qamar is an active participant in the Legislative Business of Parliament of Pakistan; with a strong attendance and voting record. Currently, He is Chairman, Standing Committee on Railways, Convener, Public Accounts Committee, Member, Standing Committees on Finance, Law & Justice and Member, Electoral Reforms Committee. Hon. Qamar played a critical role in the passage of important Constitutional amendments in the parliamentary history of Pakistan, especially in 18th, 19th and 20th Constitutional Amendments. He is member of a number of Parliamentary Friendship Groups and convener of Pakistan-Hungary Parliamentary Friendship Group. He also serves on the Board of Parliamentarians for Global Action where he leads the work on Peace and Democracy. Hon. Qamar was co-recipient of PGA's 18th Annual Defender of Democracy Award 2013 for his seminal work on national multi-party cooperation and South Asian regional peace initiatives. He is also Member on Board of Governors of Pakistan's premier policy think-tank Sustainable Development Policy Institute and has served on the Board of the Pakistan Institute of Parliamentary Services.

Xavier Querol



Xavier Querol is a research professor at IDAEA-CSIC in Barcelona, Spain. Research focusing on atmospheric sciences and environmental issues associated to power generation (mainly emissions of pollutants and recycling of wastes). He has important contributions on atmospheric aerosols chemistry, especially in urban areas, and source apportionment, as well as on devising action plans and on the scientific evaluation of their effectiveness. He is leading or participating in numerous national and international research projects and has produced around 560 SCI papers on environmental issues and supervised 27 PhD theses. In 2014, 2015 and 2016 he was included in the list of [Highly Cited Researchers](#) (1% most cited for subject fields and year of publication). He leads a team of around 25 staff working on the above topics. He acted as adviser for air quality of several important city councils, regional governments, the Spanish Ministry of Environment (leading author of the Scientific Basis for the National Air Quality Plan) and DG Environment of the EC (II Position Paper on PM, contributor to different EC Guidance Documents, member of working groups on PM) as well as UNECE (vice-chairman of EMEP Scientific Bureau) and WHO (member of SAC of REVIHAAP and HRAPIE projects).

Tamer Samah Rabie



Dr Rabie is a Lead Health Specialist in the World Bank's Health, Nutrition and Population Global Practice. He is a medical doctor with a Master's in public health from the London School of Hygiene and Tropical Medicine, and with over 20 years of experience spanning clinical medicine, public health, health systems, health policy, and environmental health. He has worked in over 20 countries in Europe and Central Asia, South Asia, East Asia, and the Middle East and North Africa regions in areas related to health system reform, quality of care, evaluations, infectious disease epidemiology, nutrition, as well as governance, social accountability, and private sector participation in healthcare service delivery and financing. Further, since joining the World Bank in 2005, Dr Rabie has developed and contributed to a number of analytical products on climate change and environmental health. In his current position he has been leading the health policy dialog in a number of countries across the Middle East and providing strategic advisory services to assist governments in reaching their universal health coverage aspirations. Dr Rabie is the World Bank's focal point for the Global Program on Environment And Health, including the impacts and co-benefits of climate change and health.

Paula Radcliffe



Paula Radcliffe was born in Northwich, Cheshire, in 1973, but grew up in Bedford. She joined Bedford and County Athletics Club at the age of 11 and competed at the World Cross Country Championships at 16. After graduating from Loughborough University with a first-class degree in modern languages in 1996, she devoted herself full-time to her running and is now acknowledged as one of the finest athletes of the modern era. As well as her achievements on the track, Paula has established herself as the master of the ultimate distance race, the marathon. She holds the world record and won the London Marathon in 2002, 2003 and 2005. In November 2004 she won the New York Marathon in breath-taking style and in 2005 she took the gold medal at the World Championships in Helsinki for the

same distance. She was awarded an MBE in June 2002 and later that year was voted the BBC's Sports Personality of the Year.

Veerabhadran Ramanathan



Ramanathan discovered the greenhouse effect of CFCs (chlorofluorocarbons) in 1975 which established the fact that non-CO₂ gases are a major contributor to global warming and also enabled the Montreal protocol to become the first successful climate mitigation policy. In 1980, Madden and Ramanathan were the first to make a statistical prediction that global warming will be detected above the background noise by 2000, verified by the IPCC in 2001. He led international field campaigns and developed unmanned aircraft platforms for tracking brown clouds pollution worldwide. His work has led to the formation of the Climate and Clean Air Coalition by the United Nations. He founded and leads Project Surya with daughters Nithya Ramanathan and Tara Ramanathan; an extended effort to characterize and mitigate climate and health impacts of cooking with solid biomass. He is now leading a University of California climate solutions course that is expected to reach a million students or more. With WHO, he organized a meeting at the Vatican on the health impacts of climate change. He was honoured as the science adviser to Pope Francis' delegation to the 2015 Paris Climate Summit. He was named the UN Climate Champion in 2013.

Molly Rauch



Molly Rauch is Public Health Policy Director for Moms Clean Air Force, where she develops clean air campaigns, creates educational resources, manages media outreach, cultivates partnerships and collaborations with other organizations, and writes about public health, science, and policy. She lives with her family in Washington, DC, where she serves on the District of Columbia's Commission on Climate Change and Resiliency. Her writing on environmental health has appeared in Goodhousekeeping.com, Parents.com, and Huffington

Post, among other publications. A native New Yorker, she holds a Master's degree in public health.

Nina Renshaw



Nina joined the NCD Alliance in July 2018 and is responsible for leading, developing, implementing and managing NCDA's global policy and advocacy work. Nina has over 12 years of international policy and advocacy experience in diverse fields including environment, transport, industrial policy, taxation and health. Prior to joining the NCD Alliance she was based in Brussels, as Secretary-General of the European Public Health Alliance (EPHA) and previously as Deputy Director of the campaign group Transport & Environment. She studied International Business at Aston University, UK and has a Master's degree in European politics and policy from Humboldt University, Berlin and the University of Bath, UK, writing her thesis on the role of civil society in policy-making. She has served as a board member of several NGOs, including the Health and Environment Alliance (HEAL), the European Citizens' Organisation for Standardisation (ECOS), and Green Budget Europe, and has represented civil society on advisory groups to the UNECE, WHO, OECD and to the European Commission on international trade, better regulation, and the Sustainable Development Goals.

Beate Ritz



Beate Ritz is a Professor of Epidemiology at the UCLA Fielding School of Public Health with co-appointments in Environmental Health Sciences and Neurology at the UCLA, SOM; a member of the Center for Occupational and Environmental Health and the California Population Research Center. Her primary research interests are the effects of occupational and environmental exposures focusing on air pollution and pesticides on pregnancy and adverse birth outcomes and childhood diseases (autism and asthma) as well as neurodegeneration (Parkinson's and Alzheimer's) and cancers. She has developed

geographic information system (GIS) based exposure assessment tools to study health effects of air pollution and of long-term pesticide exposures. She is the 2007 recipient of the Robert M. Zweig M.D. Memorial Award (“Clean Air Award”) from the California South Coast Air Quality Management District, and served on multiple IOM committees evaluating Gulf War Illness, the US EPA CASAC panel (Carbon Monoxide National Ambient Air Quality Standards); she has been a member of the Scientific Review Panel on Toxic Air Contaminants for the state of California for five years and recently served on the IOM panel on “21st Century Risk Assessment”.

Sonia Roschnik



Sonia Roschnik is Director of the Sustainable Development Unit (SDU) for the NHS and wider health sector in England. She has worked in health and social care internationally for 30 years as a clinician, in senior hospital management and in sustainability. She is committed to the transformations needed for a sustainable and healthy planet for all. Sonia trained as an occupational therapist and worked for 12 years in various specialities in Scotland, Switzerland, New Zealand and the Solomon Islands. She led a first project in integrated pathways of care in Glasgow and has since always been interested in working across boundaries and driving system change. At Cambridge University Hospitals NHS Foundation Trust she was Deputy Director of Operations for four years delivering improved patient care pathways and processes. Prior to this she worked as Head of the Occupational Therapy Department and delivered several corporate projects including the project management of a £85m PFI building across the Trust, Cambridge University and the Medical Research Council. Sonia was appointed as Head of the SDU when it was first created in 2008 delivering both the Carbon Reduction Strategy for the NHS and the Sustainable Development Strategy for the NHS, public health and social care in England. Sonia then spent two and half years based in Abu Dhabi working as sustainable health adviser for international agencies and whilst completing a Master’s degree in systems thinking.

Laurence Rouil



Laurence Rouil is the head of the “Environmental modelling and decision making” department of the Chronic risks division at INERIS. She received her PhD in 1995 in the field of applied mathematics. Her main area of experience is air quality modelling. For 20 years she has developed skills and experience being the leader of research activities closely linked to operational applications. She developed with her team the French air pollution forecasting system, PREV’AIR, 15 years ago to answer policy-makers expectations taking advantage of the current know-how in the field of air pollution. She participates actively to the air quality monitoring and management strategy in France providing technical expertise to the Ministry in charge of the Environment. She is mandated by the Ministry as national head of delegation or competent authority in several international bodies and participated to negotiations related to the definition and implementation of European legislation in the field of air pollution. Since September 2014, she chairs the EMEP Steering Body, the scientific program of the Convention on Long Range Transboundary Air pollution. She has been involved in several European research projects which developed in this domain for a long time and now is very active in the development of the EU Copernicus Atmosphere Monitoring services.

Paolo Saldiva



Paolo Saldiva, pathologist, full professor of Pathology at the Faculty of Medicine, University of São Paulo, Brazil. Member of the National Academy of Sciences and National Academy of Medicine in Brazil. Director of the Institute of Advanced Studies of the University of São Paulo. Member of Scientific Advisory Committee of the World Meteorological Organization. Member of the panel of specialists of the IARC/WHO for topics related to air pollution and cancer. Research interests: pulmonary pathology, autopsy pathology (including minimally invasive autopsies), verbal autopsy, environmental pathology. Authored 656

papers referenced in the Web of Science DataBase. Completed the supervision of 56 PhD students.

Joel Schwartz



Joel Schwartz is a Professor in the departments of Environmental Health and Epidemiology at the Harvard School of Public Health, on the steering committee of the Harvard University Center for the Environment, and Director of the Harvard Center for Risk Analysis. His major research interests include health effects of air pollution, of heavy metals, climate change, and drinking water, epidemiological methods, risk assessment and cost benefit analyses. He has examined these questions using a variety of methods including time series, case-crossover, and case-only analyses of administrative data, survival and repeated measures analyses of cohorts, repeated measures analyses of panel studies, etc. These have included a range of outcomes including cognitive function, lung function, asthma, heart attacks, strokes, deaths, blood pressure, lipid levels, biomarkers of inflammation and oxidative stress, markers of biological ageing, and epigenetic changes. In addition, he has been involved in exposure modelling, including both land use regression approaches as well as use of remote sensing data and chemical transport models, and in methodological issues, including dose-response modelling, causal modelling, and data fusion. Dr Schwartz' benefit-cost analysis on lead in gasoline was responsible for its elimination in the United States, and his methodology for valuing the benefits of reducing toxins that have cognitive effects is widely used. Professor Schwartz was a recipient of a John D. and Catherine T. MacArthur Fellowship.

Gavin Shaddick



Professor Shaddick did his undergraduate degree in Maths and Statistics at the University of Warwick followed by a Master's degree in Statistics at University College, London. He did his PhD at Imperial College in Statistics and Epidemiology. After 16 years at the University of

Bath, he joined the University of Exeter in 2017 where he is Professor of Data Science and Statistics and Chair of the department of Mathematics. He is an internationally recognized expert in the field of Bayesian spatio-temporal modelling and develops methodology for large-scale, high-resolution, modelling of air pollution, with particular attention to the propagation of uncertainty throughout the modelling process. Publications have included methods for estimating personal exposures to environmental hazards, detecting increased risk around putative point sources of pollution, incorporating spatial modelling into studies of the effects of pollution on health and the global estimation of air quality and the associated burden on health. He is also actively engaged in research with the power industry, using big data and data reduction techniques to model demand profiles, forecasting demands and identifying customer profiles. Of particular interest are computational techniques that allow the implementation of complex statistical models to real-life applications where the scope over both space and time may be very large. He is the co-author of two books: 'The Oxford Handbook of Epidemiology for Clinicians' and 'Spatio-Temporal Modelling in Environmental Epidemiology'. Since 2015 he has led the WHO's Data Integration Taskforce and the development of the Data Integration Model for Air Quality (DIMAQ) which is used to produce global estimates of PM_{2.5} for the WHO Global Burden of Disease assessment and for the Institute of Health Metric Evaluation's Global Burden of Disease assessments in 2016 and 2017. He is actively involved in the calculation of a number of SDG metrics related to air pollution and in 2017 he was invited to serve on the UK Government's Committee on the Medical Effects of Air Pollutants and its subgroup on the Quantification of Air Pollution Risks. He has recently been appointed as the Exeter Director of the joint CUHK-Exeter Centre for Environmental Sustainability and Resilience (ENSURE).

Xiaoming Shi



Professor Xiaoming Shi is an epidemiologist and public health expert in China. He obtained a PhD degree in epidemiology from Chinese Center for Disease Control and Prevention (China CDC) in 2005. Currently, he is Professor and Director of the National Institute of Environmental Health (NIEH), China CDC that is responsible for investigating, monitoring and evaluating health effects of environmental exposures nationally. His major research interests include environmental hazards and health effects, healthy ageing, and the control and prevention of noncommunicable diseases (NCDs). He has received a number of grants from Ministry of Science and Technology of China, National Natural Science Foundation of China (NSFC), and international agencies and organizations to conduct these researches. He has also contributed to establish the National Human Bio-Monitoring Project, which has been set up and implemented in China since 2016. Meanwhile, Prof. Shi is leading a large-scale project systematically assessing the acute health risks of air pollution in China, and is in the process of developing a national environmental public health tracking project. He has

extensive experiences working with numerous NCDs and ageing studies in Chinese populations. He has authored or co-authored over 160 peer-reviewed journal articles, book chapters and books.

Drew Shindell



Drew Shindell is Nicholas Professor of Earth Science at Duke University. From 1995 to 2014 he was at the NASA Goddard Institute for Space Studies in New York City and taught at Columbia University. He earned his Bachelor's at UC Berkeley and PhD at Stony Brook University, both in physics. He studies climate change, air quality, and links between science and policy. He has been an author on >200 peer-reviewed publications, received awards from Scientific American, NASA, the NSF and the EPA, and is a fellow of AGU and AAAS. He has testified on climate issues before both houses of the US Congress (at the request of both parties), the UNFCCC and the World Bank, developed a climate change course with the American Museum of Natural History, and made numerous media appearances as part of his outreach efforts. He chaired the 2011 UNEP/WMO Integrated Assessment of Black Carbon and Tropospheric Ozone, was a Coordinating Lead Author on the 2013 Fifth Assessment Report of the IPCC and is again a Coordinating Lead Author on the forthcoming IPCC Special Report on 1.5 °C. He also chairs the Scientific Advisory Panel to the Climate and Clean Air Coalition of nations and organizations.

Kirk R. Smith



Kirk R. Smith, Professor of Global Environmental Health, UC Berkeley; and Director, Collaborating Clean Air Policy Centre, New Delhi. In 1981 in India, Professor Smith's team conducted the first measurements of household air pollution done in the world and he has been involved in many dozens of studies documenting the scale and health impacts in more than a dozen countries since, including conducting the first randomized controlled trial in air pollution history, in Guatemala. His team also conducted the first measurements linking

household combustion to climate change in the 1990s and most recently has been documenting the extent to which household sources contribute to ambient air pollution in Asia. He has contributed to the development of the current WHO's Air Quality Guidelines and Indoor Air Quality Guidelines and was extensively involved in the health and co-benefits chapters of the last two IPCC assessments on climate change. He now directs the new Centre on air pollution policy in India, which focuses on developing and evaluating policy initiatives to reduce air pollution exposures from any source, indoor, outdoor, rural, and urban. He has been awarded the Heinz and Tyler Prizes in environmental achievement and elected to the US National Academy of Sciences, one of the highest honours awarded to US scientists and has active field studies ongoing in India and Mongolia.

Inoka Suraweera



Dr Inoka Suraweera is a Board Certified Specialist in Community Medicine. She graduated from the Faculty of Medicine, University of Colombo with second class honours and holds Master's and Doctoral degrees in community medicine from the University of Colombo, Sri Lanka. She had her post-doctoral training at the Monash Centre for Occupational and Environmental Health at Monash University in Melbourne, Australia. She has had further training on occupational and environmental medicine and health risk assessment and management of toxic chemicals from the Chulabhorn Research Institute, Bangkok, Thailand. She currently works at the Directorate of Environmental and Occupational Health at the Ministry of Health in Sri Lanka as the National Technical Programme Manager for Occupational and Environmental Health. She is actively engaged in both undergraduate and post graduate medical teaching in the areas of occupational and environmental health. She is a member of the College of Community Physicians of Sri Lanka, Sri Lanka Medical Council, International Commission on Occupational Health and a prestigious member of the College of Ramazzini in Italy. She has published several journal articles on occupational health and environmental health in peer-reviewed journals and made several presentations and speeches at national and international conferences in the areas of occupational and environmental health.

Ugo Taddei



Ugo Taddei joined ClientEarth in 2014 and is based in the Brussels office. Ugo leads the Clean Air team within the Strategic Litigation programme. His work aims to enforce compliance with EU air quality laws through litigation before national courts in EU member states. He also works to improve EU air pollution law, with a particular focus on vehicle emissions regulations. Before joining ClientEarth, Ugo was a lawyer with the Italian law firm SLCG in Florence and Milan (Italy), practising in commercial litigation and arbitration. He is a qualified lawyer in Italy. Ugo graduated with first class honours in both his undergraduate and postgraduate studies. He holds a degree in law from the University of Florence (Italy) and a degree in environmental law and policy from the University College London (LLM). He was awarded the Francis Taylor Building Prize for Environmental Law 2014.

Minoru Takada



Minoru Takada is Energy Team Leader, Division for Sustainable Development Goals, UN Department of Economic and Social Affairs (UN DESA). Dr Takada spearheads DESA's efforts in reviewing, following up and implementing SDG7 on energy, in support of the 2030 Agenda for Sustainable Development. In this capacity, he served as the UN focal point for supporting the first global review of the SDG7 during the UN High Level Political Forum in July this year. Prior to this position, Dr Takada was the Team Leader for Sustainable Energy for All at the Executive Office of the Secretary-General at UN. Previously, he was Head of the Sustainable Energy Programme at United Nations Development Programme (UNDP), and worked in Africa as a community organizer for several years. He holds a PhD in renewable energy applications from the University of Mie in Japan, and a Master's in nuclear engineering from the University of Hokkaido, Japan.

Shu Tao



Dr Shu Tao is a professor at the College of Urban and Environmental Sciences, Peking University, China. He is a member of the Chinese Academy of Science and a member of the National Steering Committee on Environmental Protection. He serves as an Associate Editor of Environmental Science and Technology. His current research interests include global emission inventories of various air pollutants, atmospheric transport and population exposure modelling, household air quality. He has more than 200 papers published in peer-reviewed international journals, including three in PNAS, one in Nature Energy, and 80 in Environmental Science & Technology with total citation over 14 000 and H-index (Web of Science) of 64.

Jessy Tolkan



Jessy Tolkan is a Partner, the Chief Campaigns Officer, at Purpose.com and Executive Director of Purpose Labs, a movement accelerator and innovation hub working to supercharge movements around the world. She has spent the last 15 years as an activist and movement leader working for social change, specializing in large-scale people-powered campaigns that disrupt the status quo, leverage culture change, and amplify affected communities. Jessy has consulted and advised many of the world's leading social change organizations in the United States, having led an international effort to build electric vehicle infrastructure for several major auto companies and as a senior advisor to the Working Families Organization and the Center for Working Families. She served as Co-Executive Director of both Citizen Engagement Laboratory and Power Shifty and as State Director of the New Voters Project. She's been featured in Time Magazine, Glamour Magazine, The New York Times, Hardball with Chris Matthews, and Vanity Fair Magazine. In 2008, Rolling Stone Magazine named her one of the 100 agents of change in America.

Claudia Traidl-Hoffmann



Professor Traidl-Hoffmann (b. 1970) investigates human-environment interactions focusing on allergic diseases. Her research contributes to our understanding how environmental factors act on the body's epithelial and immunological interface. The first step in this research involves the definition and detailed characterization of the environment (exposome) and the effect on the human body (human biomonitoring and reactome analysis). Identified environmental factors are further characterized with respect to function and signalling in complex human in vitro and in vivo systems. A detailed understanding of the molecular mechanisms underlying human-environment interactions makes it possible to identify risk factors, develop prevention strategies and identify target structures for therapies. Professor Traidl-Hoffmann studied medicine at RWTH Aachen. Subsequently, supported by a grant from DFG, the German Research Foundation, she performed a research fellowship at IDI in Rome for two years. As of 2001 she worked as a physician scientist, conducting clinical work in TUM's Department of Dermatology and scientific research at the Center for Allergy and Environment (ZAUM). In 2013 she was appointed to the board of directors of CK CARE – Christine Kühne – Center for Allergy Research and Education. Since November 2013 she has headed the newly established Institute for Environmental Medicine at the University Center for Health Sciences at Augsburg hospital (UNIKA-T). She is also heading the outpatient clinic for environmental medicine at the Klinikum Augsburg treating patients with environmental diseases such as allergies and atopic eczema.

Bhushan Tuladhar



Bhushan Tuladhar is the Regional Technical Advisor South Asia for UN-Habitat's Urban Basic Services Branch. He has a Master's degree in environmental engineering from Cornell University, USA and 25 years of experience of working on various urban and environmental issues in government, municipalities and NGOs. He headed the Environment Department of Kathmandu Metropolitan City and was a member of its City Planning Commission. He also

served as the Executive Director of Environment and Public Health Organization (ENPHO) and Clean Energy Nepal (CEN). Based in Kathmandu, Nepal he has led projects on water and sanitation, climate change, air quality, mobility, energy and waste management. He is currently a Board Member of Sajha Yatayat, a public transport cooperative and Chairperson of ENPHO and CEN.

Diana Ürge-Vorsatz



Diana Ürge-Vorsatz is a Professor at the Department of Environmental Sciences and Policy at the Central European University (CEU). She serves as Vice Chair of Working Group III of the Intergovernmental Panel on Climate Change (IPCC). She holds a Ph.D. from the University of California (Los Angeles and Berkeley). She served as the Acting Head of Department at CEU in 2002–2003 and directed the PhD program in 2003–2004. Diana Ürge-Vorsatz was a Coordinating Lead Author in two Assessment Reports of the IPCC. She served on the United Nation’s Scientific Expert Group on Climate Change, and led the buildings-related work in the Global Energy Assessment. She serves as associate editor of the journal “Energy Efficiency”, and is a member of the Editorial Board of “Annual Reviews of Environment and Resources”. She was a Visiting Professor at the International Christian University of Tokyo and a Research Scholar at IIASA (International Institute for Applied Systems Analysis). She has been serving on the Governing and Advisory boards of several organizations, including Innogy (formerly RWE), the Austrian Climate and Energy Fund (KLIEN), the European Climate Foundation (ECF), the UK Energy Research Centre (UKERC), and the Hungarian Energy-Efficiency Cofinancing Program (HEECP), and the Club of Budapest. She is regularly invited to high-level review panels, such as that evaluating the work at Lawrence Berkeley National Laboratory and the EU’s Joint Research Centre. She received the Hungarian Republic’s Presidential Award “Medium Cross” in 2008, as well as the “Role Model” award in 2009 and was invited as a member of Academia Europaea in 2017.

Dymphna van der Lans



Dymphna van der Lans is the Chief Executive Officer, Global Alliance for Clean Cookstoves. Dymphna brings more than 25 years of experience managing and leading global development, energy, and climate initiatives in the non-profit and private sectors. Most recently, she led international corporate engagement with the World Wildlife Fund's Climate & Energy team. Previously, she worked with the Clinton Foundation as CEO of the Clinton Climate Initiative and has served as the senior director for public policy programmes at the German Marshall Fund of the United States. Dymphna has also served as the director of global renewables, infrastructure, and energy efficiency at a specialist investment banking firm in London, and for seven years at BP, where her last appointment was as BP Alternative Energy's director of distributed energy markets. Dymphna has worked and lived in China, India, and Kenya and engaged with island nations in the Caribbean and the Indian and Pacific Oceans to support their transition away from polluting diesel fuels to renewable sources of energy. Her native language is Dutch, and in addition, she speaks English and Chinese fluently and has conversation ability in both French and German. She holds advanced degrees from both Leiden University and the University of Beijing, and has earned a Master's in business administration from Rice University.

Rita Van Dingenen



Rita Van Dingenen is a senior researcher at the European Commission Joint Research Centre in Ispra, Italy, where since 1990 she has been involved in field, laboratory and modelling studies on physical and chemical properties of atmospheric particulate matter (aerosols). Since 2005 her research focuses on air quality modelling and impact studies of current and future climate and air quality policies, on a global and European scale. In this framework she is responsible for the development and application of a global source-receptor model (TM5-FASST) which links pollutant emissions to climate and environmental impacts (PM_{2.5} and other pollutant concentrations, human health, crop yield, various climate metrics from

short-lived climate pollutants). The tool has been applied in various assessment studies, including the Integrated Assessment of Black Carbon and Tropospheric Ozone and its follow-up synthesis report Near-term Climate Protection and Clean Air Benefits: Actions for Controlling Short-Lived Climate Forcers, assessments by the World Bank, OECD, the Climate and Clean Air Coalition. The TM5-FASST model was also included in the methodology to estimate human exposure to ambient pollution in the frame of the Global Burden of Disease studies since 2010.

Erion Veliaj



Erion Veliaj was elected as the 42nd Mayor of Tirana in June 2015. His leadership of Tirana has been by far marked by the implementation of policies aimed at transforming Tirana into a child-friendly city as he believes that given that children are quick to embrace new ideas, they are the best allies one can have in trying to build a greener, more humane and more sustainable city. Prior to his tenure, Veliaj served as a Member of Parliament and Minister of Social Welfare and Youth from 2013 through 2015. At the time, he introduced sweeping reforms on pensions, welfare payments, employment opportunities and professional education. For the first time, Veliaj structured the Socialist Party's branches in countries where the Albanian Diaspora resides and successfully contributed to the organization of the voting process of the Albanian immigrants in the 2013 elections. Before joining the ranks of the Socialist Party in 2011, Veliaj had a long experience as the leader and founder of the movement "MJAFI", a civic organization which gained huge popularity for its novel methods of peaceful protest. Veliaj holds a Master's degree in European Integration from the University of Sussex and a Bachelor's degree in political science from the Grand Valley State University.

Katherine Walker



Katherine Walker is a principal scientist at the Health Effects Institute, an independent research organization in Boston, USA. She is currently responsible for HEI's global programmes which include the annual State of Global Air report and website and the global burden of disease from major air pollution sources. Regional applications include analyses of air quality and health impacts of shipping in the Shanghai/Yangtze River Delta, China estimation of the contribution of household air pollution to ambient air quality in Africa, among other projects. She managed two major HEI expert panel reviews: (1) of the Diesel Exhaust in Miners study and its suitability for use in quantitative risk assessment and (2) of the scientific literature on ultrafine particles. She has also served as the staff scientist for numerous HEI research studies – multi-centre, multi-city time series study of air pollution and health in Europe and North America (APHENA) and in South America (ESCALA), on a multi-centre US study of the effects on health of PM composition and gaseous co-pollutants (NPACT), and on the development of statistical methods for multi-pollutant analysis, accountability studies, and causal inference, among others. Prior to joining HEI, Dr Walker spent 20 years in the conduct and application of public health risk assessment, including characterization of uncertainty, to support decisions. Dr Walker holds a MS and ScD from the Harvard TH Chan School of Public Health.

Elisabete Weiderpass



Elisabete Weiderpass, MD, MSc, PhD, is a Brazilian cancer researcher naturalized Swedish and Finnish citizen. She is an expert in cancer epidemiology and cancer prevention. She serves as leader of the Department of Research at the Cancer Registry of Norway and Genetic Epidemiology Group at the Folkhälsan Research Center in Finland. She is a Professor of Medical Epidemiology at the Karolinska Institutet in Sweden, and a Professor of Cancer Epidemiology at the Arctic University of Norway. In May 2018 Dr Weiderpass was elected as the new Director of the International Agency for Research on Cancer, World Health Organization. Dr Weiderpass will take office on 1 January 2019 for a five-year term.

Yun-Chul Hong



Yun-Chul Hong's main interest is in environmental health issues, particularly environmental and genetic effects on chronic disease such as diabetes mellitus, hypertension and cancer. He has much experience in the epidemiological research for evaluating effects by exposure to air pollution, endocrine disrupting agents and heavy metals. He also has expertise in the area of gene-environmental interaction showing that not only genetic polymorphisms but also environmental exposures affect health outcomes or indicators by the way of interaction. Currently he is the chair of the Department of Preventive Medicine and the director of the Institute of Environmental Medicine, Seoul National University College of Medicine in Korea. He also serves as chair of Thematic Working Group for Air Quality of the Asia-Pacific Regional Forum on Environment and Health. He works as an editor and reviewer for many international journals on epidemiology and environmental health. As of 2018, he has published more than 250 articles in the peer-reviewed international journals.

Felice Zaccheo



Felice Zaccheo is Head of Unit, Sustainable Energy and Climate Change – Directorate General for International Cooperation and Development (DEVCO), European Commission. Mr Felice Zaccheo has over 25 years' experience in international cooperation and development. He started his professional career in the field as responsible for a rural development project in Ethiopia. He has been project manager and adviser for several development projects financed by the Italian Ministry of Foreign Affairs in Peru, Tanzania, Tunisia and Nicaragua. Mr Zaccheo joined the European Commission in 1997 at the Food and Veterinary office in Dublin. He moved back to Africa in 1999, as Head of Rural Development for the EU Delegation in Nigeria. Among other tasks, he was responsible for rural development micro-projects in the Niger Delta. In 2003–2007 he was Head of Rural Development for the EU Delegation in Jamaica. One of his main tasks was the execution of development projects in the Caribbean, including Jamaica and Belize. As from 2007 he works in the European

Commission Headquarters in Brussels. Since 2016 he has been the Head of Unit for Sustainable Energy and Climate Change in the Directorate for Planet and Prosperity at DEVCO.