

RESTORING BLUE SKIES: ACCELERATING AIR POLLUTION CONTROL

SPEAKER BIOGRAPHIES

In Order of Appearance

WEI Jianguo

Mr. Wei is the Vice Chairman of China Center for International Economic Exchanges. He has served as Vice Minister of Commerce, Vice Minister of Foreign Trade and Economic Cooperation, Assistant to Minister of Foreign Trade and Economic Cooperation, Director-General of Department of Human Resources, Education and Labor, Ministry of Foreign Trade and Economic Cooperation, Director-General of Department of West Asia and Africa, Ministry of Foreign Trade and Economic Cooperation etc. He graduated from Shanghai University of Foreign Language, major in French.

Ellen CARBERRY

As Managing Director of the China office and of the Institute's Climate Change and Air Quality Program, Elle works in tandem with Jerry Yu to lead daily operations and workflows of the staff in support of the Institute's mission. For the Climate Change and Air Quality Program, she leads the program's strategy. Previously, Elle founded and led the China Greentech Initiative, the leading member-based advisory group serving companies participating in China's energy, water and environment markets, and publisher of the annual *China Greentech Report*, www.report.china-greentech.com.

Prior to this, she was the Vice President of Business Development, Asia Pacific for Red Hat, the leader in open source software. For Red Hat, she launched the Greater China business and established and led Asia-Pacific OEM sales from IBM, Intel and Lenovo. Her experience also includes founding and leading IBM China's outsourced services for China's Financial Services Sector. Prior to IBM, she founded and led sales at Mainspring, a venture-backed e-commerce professional services firm that was listed on Nasdaq and later acquired by IBM in 2001. She also led business development for the Ziff-Davis Online Network and was a regional sales manager for IBM's Financial Services Sector in the U.S. She graduated from Georgetown University with a B.A. in economics and literature.

WANG Jiansheng

Mr. Jiansheng Wang is the President of Energy Foundation China and Chief Representative of Energy Foundation Beijing Representative Office. Mr. Wang joined EF China in December 2013. Previously, he worked for 15 years in the International Finance Corporation of the World Bank Group and five years in the private equity industry. He received a MA and Ph.D. in Economics from New York University.

Hal HARVEY

Hal Harvey is the CEO of Energy Innovation: Policy and Technology LLC. He is also a Senior Fellow for Energy and the Environment at the Paulson Institute located at the University of Chicago. Previously, he was the founder and CEO of ClimateWorks Foundation, a network of 13 regional foundations and expert teams who promote policies to reduce the threat of climate change. From 2001-2008, he served as Environment Program Director at the William and Flora Hewlett Foundation. From 1990 through 2001, Mr. Harvey served as founder and President of the Energy Foundation, a joint initiative of six large U.S. Foundations. Mr. Harvey has served on energy panels appointed by Presidents Bush (41) and Clinton, has published two books and dozens of articles on energy and national security issues, and speaks widely on energy topics. He is President of the Board of Directors of the New-Land Foundation, and Chairman of the Board of MB Financial Corporation, a \$10 billion Chicago bank holding company. Earlier in his career, he designed and built solar homes. In 2005, Mr. Harvey served as Rhodes Chair and Lecturer in Public Policy at Arizona State University. Mr. Harvey has B.S. and M.S. degrees from Stanford University in Engineering, specializing in Energy Planning.

ZHANG Gong

ZHANG Gong, Vice Mayor of Beijing, Director-General of the Beijing Municipal Commission of Development and Reform, Secretary of its Party Leadership Group, member of the Eleventh CPC Beijing Municipal Committee and deputy to the Eleventh National People's Congress. He received the Master Degree of Economics (majoring in Business Management) from an in-service graduate program at the Capital University of Economics and holds the title of Senior Engineer. The previous leadership positions Mr. Zhang Gong held include Deputy Director and Director of the Beijing Electric Appliance Institute; General Manager of Beijing Transformer Plant; Director, Deputy General Manager and a member of the CPC Standing Committee of Beijing Mechanical & Electrical Industry (Group) Co., Ltd.; Director, Deputy General Manager and a member of the CPC Standing Committee of Beijing Jingcheng Machinery Electric Holding Co.,Ltd.; Deputy Director-General of Beijing Municipal Commission of Economy and member of Beijing Municipal Industrial Working Committee; Deputy Director-General, Member and Secretary of the Party Leadership Group of the Beijing Municipal Commission of Development and Reform and Director-General of Beijing Municipal Energy & Economic Operation Office (concurrently); Vice Mayor and member of the Party Leadership Group of Beijing Municipal Government; Director-General of Beijing Municipal Commission of Development and Reform and Secretary of its Party Leadership Group; Director-General of Beijing Municipal Energy & Economic Operation Office (concurrently).

SHU Changyun

Mr. SHU is Vice Secretary-General of Tianjin Municipal Government. His previous post include Deputy Director of Tianjin Rural Construction and Transport Commission, Director-General of Tianjin Machinery and Equipment Complete Sets Bureau etc.

HAO Jiming

Prof. HAO Jiming is from Tsinghua University, and is Academician of the Chinese Academy of Engineering. He received his doctorate from the University of Cincinnati in 1984. Prof. HAO's main research area is energy and environment, including acid rain prevention, vehicle emission control, urban air pollution complex control, and regional and global environment. Prof. HAO has won one first-class and two second-class National Science and Technology Progress Awards, and one second-class National Natural Science Award. Additionally he was awarded the "National Teaching Master" and "Green Annual Figures of China". He also works as an active member or director of the boards of several professional societies, including the Committee on Engineering and Environment of the World Federation of Engineering Organizations, Chinese Environmental Consultant Committee, and the China Council for International Cooperation on Environment and Development.

Richard COREY

Mr. Corey is Executive Officer of the California Air Resources Board (CARB). Mr. Corey has nearly 30 years of professional experience in the air pollution field with over 20 years of that experience in a management capacity at ARB. Prior to his appointment as Executive Officer, he served as Deputy Executive Officer and Chief of the Stationary Source Division. Mr. Corey's team of approximately 1,400 staff including engineers, scientists, and analysts are responsible for a broad range of programs including those concerning fuels, mobile sources, climate, incentives, and air toxics. Some of the key programs that his team is responsible for implementing include low emission vehicle programs, low carbon fuel standard, cap-and-trade regulation, measures and incentives to reduce emissions from a variety of goods movement sources, including port trucking, transport refrigeration units, cargo handling operations, and maritime operations. His team also develops and implements measures to reduce emissions from stationary and portable diesel engines as well as several strategies to reduce toxic air contaminants from a wide variety of sources. His team also develops key planning documents to keep California on track to meeting health-based air quality standards and climate goals. Mr. Corey has an undergraduate degree in Environmental Toxicology as well as an MBA from the University of California, Davis.

CHAI Fahe

Professor CHAI Fahe is vice president of the Chinese Research Academy of Environmental Sciences. He also serves as the deputy director of the Standing Committee and secretary-general of Atmosphere Environment Branch, Chinese

Society for Environmental Sciences, and is a professor at Renmin University of China and Beijing Normal University. An expert on atmospheric physics and atmosphere environmental technologies, Professor CHAI has lead numerous national and international projects on regional air pollution control technologies, transmission mechanisms of regional air pollutants and air quality improvement, source apportionment of particulate matter for cities, and air pollution indices.

David HAWKINS

David Hawkins began his work in “public interest” law upon graduation from Columbia University Law School in 1970. He joined the Natural Resources Defense Council’s (NRDC) Washington, DC office in 1971 as one of the organization’s first staff members. In 1977, Mr. Hawkins was appointed by President Carter to be Assistant Administrator for Air, Noise, and Radiation at the Environmental Protection Agency (EPA). During his time at EPA, he was responsible for initiating major new programs under the 1977 Amendments to the Clean Air Act. With President Reagan’s election in 1981, Mr. Hawkins returned to NRDC to co-direct NRDC’s Clean Air Program. In 1990, Mr. Hawkins became Director of NRDC’s Air and Energy Program, and in 2001 he became the Director of NRDC’s Climate Center. The Climate Center focuses on advancing policies and programs to reduce the pollution responsible for global warming. In addition to working with Congress to design a legislative mechanism that will slow, stop and reduce the emissions of global warming pollution, Mr. Hawkins is recognized as an expert on advanced coal technologies and carbon dioxide capture and storage. Mr. Hawkins is a member of the U.S. Department of Energy’s Climate Change Science Program Product Development Advisory Committee. He participated in the Intergovernmental Panel on Climate Change’s Special Report on Carbon Dioxide Capture and Storage and is participating in the IPCC’s Fourth Assessment Report on climate change. Mr. Hawkins is married with three children and lives in Bethesda, MD.

YANG Jintian

YANG Jintian is deputy chief engineer at the Chinese Academy for Environmental Planning of the Ministry of Environmental Protection and director of its Air Environmental Planning Department. Mr. YANG has conducted research on air pollution control planning, air pollution prevention policies, pollution discharge reduction, and energy and atmospheric environmental protection. His work has included designing air pollution prevention plans and analyzing economic and air pollution control policy. This has included the *Twelfth Five-year Plan* for Joint Prevention and Control of Air Pollutants in Major Areas, the compilation of the *Twelfth Five-Year Plan* for Air Pollution Control in Key Regions and the *Eleventh Five-year Plan* for Acid Rain and SO₂ Pollution Prevention and Control. Mr. YANG has chaired studies on the paid use of SO₂ emission rights and emission trading in the power industry, technical methods and policy systems for regional total coal consumption control, environmental implication-based total nitrogen oxide emission control, and administrative measures for allocation and supervision of air pollutants

emissions.

Robert HORBATY

Robert Horbaty, Founder and Project Leader of ENCO Energie-Consulting AG, has participated in the development, implementation and management of national, regional and municipal programs in the field of sustainable development for over 25 years. He owns an energy consulting company based in Switzerland, ENCO AG. Today his main field of activity is on municipal energy- and climate change policies. He was one of the founders of the “European Energy Award” and he is the managing director of this system in Switzerland, also responsible for the implementation in new countries. He manages the “Smart City” –program in Switzerland and takes part in the activities of the International Energy Agency IEA on “Implementation of energy strategies in communities”. He has more than 5 year of experiences in consulting work in China, e.g. a back-stopping mandate by the Swiss Agency for Development and Cooperation for the development of a Sino-Swiss low carbon city project in China.

ZHAO Lijian

Mr. Lijian Zhao is the Director of the China Environmental Management Program at Energy Foundation China. He manages grants to support China in improving the environmental regulatory system, fighting against air pollution, and managing local environmental impacts of the energy lifecycle. Prior to joining the Energy Foundation, Mr. Zhao was Program Officer for Environment at The Asia Foundation. He also served as a Consultant/Auditor in the private sector at SINOSPHERE Corp. and worked for Global Village of Beijing, an environmental NGO in China. Mr. Zhao holds an MSc. Degree in Environmental Sciences, Policy and Management from the International Institute for Industrial Environmental Economics (IIIEE), Lund University in Sweden and Central European University (CEU) in Hungary, with support from the European Commission Erasmus Mundus scholarship. He is a LEAD (Leadership for Environment and Development) Fellow and holds a Bachelor of Philosophy from Peking University.

Tonny XIE

Mr. XIE is the Director of the Secretariat for Clean Air Alliance of China (CAAC). CAAC is a think-tank platform initiated by ten Chinese leading research institutions with support from Energy Foundation, targeting at providing integrated technical support and service to clean air policy making and implementation at both national and local levels. Before joining in CAAC, Mr. Xie served varied posts, including senior consultant, technical director, program manager, at environmental consultancies and development agencies in the field of environmental protection and curbing climate change.

Catherine WITHERSPOON

Catherine Witherspoon has 26 years of air quality management experience at the

state, local and federal governmental levels. She has been a private consultant since January 2008. She is currently is under contract with the ClimateWorks Foundation in San Francisco California as a Project Manager for its international initiatives related to non-CO2 climate forcers. Between January 2003 and July 2007, Ms. Witherspoon was Executive Officer of the California Air Resources Board (CARB), where she managed a staff of 1,100 and an annual budget of \$350 million. Ms. Witherspoon served at the pleasure of an 11-member Governing Board comprised of experts in the fields of medicine, chemistry, physics, meteorology, automotive engineering, agriculture, law, and local government representatives. She was directly involved in the drafting of California's landmark Greenhouse Gas Solutions Act of 2006, the California Clean Air Act of 1988 and several important environmental laws in between. Ms. Witherspoon started her career at CARB as a student assistant in 1981 and held increasingly responsible positions over the next 13 years including Legislative Representative, Chief of Air Quality Planning & Transportation Sources, and Assistant Executive Officer. Between 1995 and 1998, Ms. Witherspoon served briefly as an Expert Consultant to the U.S. Environmental Protection Agency in San Francisco (1995), was Legislative Director for the South Coast Air Quality Management District (1995-1997), and ran her own consulting firm (1998). Ms. Witherspoon returned to CARB in 1999 as the Senior Policy Advisor to then-Chairman, Catherine Witherspoon has a Bachelor of Arts in Politics from the University of California at Santa Cruz.

ZHANG Qiang

Prof. Zhang now works for the Center for Earth System Science of Tsinghua University, He served as a researcher for International Institute for Applied Systems in Austria and Tennessee University in the USA. He has been engaged in the research on quantitative analysis of regional and global atmospheric pollutants, regional air pollution simulation. He has published more than 40 academic papers from SCI, providing 700 references. His research field is on the quantitative analysis of regional and global atmospheric pollutants, air pollutant emission inventory modeling, satellite remote sensing data validation and application.

MA Jun

Mr. Ma is the current Chief Economist of Research Bureau, People's Bank of China, PhD of Georgetown University and Chief Economist of Deutsche Bank in Greater China. He joined in Deutsche Bank in 2000 based in Hong Kong. Prior to this, he worked in World Bank and International Monetary Fund (IMF) as an Economist and Senior Economist successively. Ma Jun has been mainly dedicated to macro economy and financial market study since 2000, and provided global and Chinese economic predictions as well as investment strategies such as assets allocation. He worked as Economist and Senior Economist in World Bank and IMF and provided economic policy study and consultations for many countries including China. Mr. Ma was a researcher in Development Research Center of the State Council from 1988 to 1990.

JIANG Kejun

Mr. Jiang is the Professor of Energy Research Institute of the National Development and Reform Commission. He graduated from Computer Department of Dalian University of Technology with a master's degree in 1990 and was assigned to work in Energy Research Institute in the same year. He studied in Japan Tokyo Institute of technology for his doctorate in social engineering in 1996 and got the PhD degree in 1999. He was given the research qualification in 2004. Mr. Jiang has been engaged in over a decade's study on energy environmental policy assessment, energy use and energy conversion technology assessment by applying comprehensive evaluation models as tools, and his study is focused on energy environmental system analysis.

LIU Qiang

Dr. Liu is the Director of Department of Strategy, National Center for Climate Change Strategy and International Cooperation (NCSC). Dr. Liu Qiang has a PhD degree in resources and environment economics and a master's degree in climate changes, and he got the British Chevening Scholar. He worked in Energy Research Institute of NDRC during 2001-2011 and held positions as Consulting Expert of International Energy Agency (IEA) and Senior Visiting Scholar of International Institute for Applied Systems Analysis (IIASA) and Asian Institute of Technology (AIT). He has been dedicated to study on energy and climate change policies for a long time, and his main research fields are low carbon development strategy and planning, energy and climate change policy evaluation, energy and carbon emission scenario analysis, energy economic model study, greenhouse gas emission accounting, etc. He was responsible for and got involved in many national key research projects in energy and climate change policy study area, such as key science and technological project of the Ministry of Science and Technology, key projects of macro economy research institute of NDRC, key projects of funds of the Ministry of Education, etc., and took charge of and undertook many international cooperation projects like British SPF Fund Program, project funded by REEEP, UNDP funded project, projects funded by American Energy Foundation, etc. His main thesis and books are *"Embodied Energy and Carbon Emission in China's Export and Import Trade Products"*, *"2050 China Energy and Carbon Emission Report"*, *"Development of Low-Carbon City in China-Strategies and Methods"*, *"Study on Greenhouse Gas Emission Costs, Paths and Policies"*, *"Ways and Countermeasures to Realize Greenhouse Gas Control Objectives in 2020"*, etc.

Michael P. WALSH

Michael P. WALSH is a mechanical engineer who has spent his entire career working on motor vehicle pollution control issues at the local, national and international level. For the first half of his career, he was in government service, initially with the City of New York and subsequently with the US Environmental Protection Agency. With each, he served as Director of their motor vehicle pollution control efforts. Since leaving government, he has been an independent consultant advising governments and industries around the world. He served as co-chairman of the US EPA's Mobile

Sources Technical Advisory Subcommittee for approximately 12 years and is actively involved in projects in several countries. He has been a member of several National Academy of Sciences Committees. He is a recipient of the U.S. Environmental Protection Agency Lifetime Individual Achievement Award, the California Air Resources Board's "Haagen Smit" award and was selected as a MacArthur Fellow for "extraordinary originality and dedication". In 2009, he received the Silver Magnolia award for his service to the City of Shanghai. In 2010 he received the Friendship award, the highest award for international experts in China. He is the Founding Chairman of the Board of Directors of the International Council on Clean Transportation. In 2012, he co-chaired the (China Council for International Cooperation on Environmental and Development (CCICED) special project regarding Controlling Regional Air Pollution in China. Currently co-chairs a CCICED follow up special project regarding a Performance Evaluation on the Action Plan of Air Pollution Prevention and Control and Regional Coordination Mechanism.

DING Yan

Dr. Yan Ding joined Vehicle Emission Control Center (VECC) of Chinese Ministry of Environmental Protection in 1997. He currently is the Deputy Director of VECC. During his 15 years working for VECC, Dr. Ding played a key role in the development of Chinese vehicle emission control policies, regulations and standards. Dr. Ding has a doctor degree in environment engineering from the Beijing Institute of Technology, and a master degree in environment science from the Peking University. He earned his bachelor degree in mechanical engineering from the Tongji University in Shanghai.

MAO Xianqiang

Dr. Mao is the professor and tutor of PhD degree candidates of Environment College, Beijing Normal University, Director of Center for Global Environment Policies (CGEP) of Beijing Normal University, editorial board member of *Ecological Economy* magazine, member of the steering committee of *Chinese Journal of Environmental Management* magazine, member of the 1st Steering Committee of Clean Air Alliance of China (CAAC), Deputy Director Member of (The 3rd) Chinese Society of Environmental Sciences, Economics Branch. And his research is focused on environment economic policies and management, environmental assessment and planning, greenhouse gas and local pollutant coordinated control, trade and environmental issues, etc.

CHANG Chaofei

Yang Chaofei, Vice Chairman of Board of Directors of China Society for Environmental Sciences, is the former Chief Engineer for Nuclear Safety of the Ministry of Environmental Protection (MEP). Mr. Yang has over 30 years experience as a government official in the field of Environmental Protection. Prior to his Chief Engineer position, Mr. Yang held other government positions including the Director General in the Department of Policies, Laws and Regulations of MEP, and the

Director General in the Department of Nature and Ecology Conservation of MEP. Mr. Yang has been a leading author for many books and reports which including the *China Environmental Macro-strategy Study (2010)*, *The theory and Practice of Eco-compensation in China*, *China's Pollution Charges and etc.*. Mr. Yang has published many academic papers on national level professional journals. Mr. Yang is also the Vice Chairman of China Environmental Law Society. Mr. Yang received his M.A. in Environmental Law from Wuhan University.

Ken MARKOWITZ

Ken Markowitz is the Managing Director of the International Network for Environmental Compliance and Enforcement (INECE) Secretariat, the Founder and President of Earthpace LLC, and Senior Climate Change Consultant to Akin Gump Strauss Hauer & Feld. Mr. Markowitz leads international initiatives among regulators, businesses and international organizations to strengthen compliance, improve investor confidence and ensure environmental integrity in the emissions trading systems and other climate change regulatory programs. Mr. Markowitz serves on the adjunct faculty of the Washington College of Law, as a senior fellow at the University of California, Santa Barbara Bren School of Environmental Science and Management, as a co-chair of the IUCN Commission on Environmental Law's specialist group on compliance and enforcement, and as co-chair of the American Bar Association Clean Tech and Climate Change Committee. He previously served as a senior attorney at U.S. EPA, and in private practice as an environmental lawyer. He earned his B.B.A. in finance from Emory University in 1985 and his J.D. in 1989 from American University's Washington College of Law.

James LENTS

James Lents directed the environmental policy related programs at the University of California at Riverside for 8 years. He has over 27 years experience directing air quality programs in Tennessee, Colorado, and the internationally recognized program in Southern California. He holds a Ph.D. and MS degree in Physics and a Bachelor of Science degree in Engineering from the University of Tennessee. He has conducted educational programs for policymakers worldwide on innovative environmental solutions. His recent research includes market-based approaches to improve air quality, mobile source impacts, and distributed generation. He is an acknowledged world leader in environmental policy.

ZHANG Chunyu

Zhang Chunyu is the Professor of Institute of World Economy and Politics of China Academy of Social Sciences (CASS), and Energy Research Office of CASS. His research field includes energy economy and ocean economy.