



Conference on Resource Efficiency

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COMPILATION OF BIOGRAPHIES OF

CHAIRS AND SPEAKERS

(AS OF 23 APRIL 2008)

CONFERENCE CO-CHAIRS

Prof. Mark James MWANDOSYA is the Minister for Water and Irrigation of Tanzania. Prior to his current appointment, he has been Minister in the Vice President's Office responsible for Environment and Minister of Communication and Transport. He has over 25 years of professional and lecturing experience and has devoted much of his time in research and studies in environment, energy and natural resource development and use. He has attended CoP meetings of the UNFCCC since 1995 and was the Chairman of the Group of 77 at the Kyoto Protocol negotiations in Japan. He has a PhD in Electronic and Electrical Engineering from the University of Birmingham.

Mr. Masayoshi NAMIKI is the Vice Minister for Environment of Japan. He has been a member of the House of Representatives since 1996, representing the Liberal Democratic Party. In the House of Representatives, he has also been Director of Committee on Agriculture, Forestry and Fisheries, and member of Committee on Environment, Special Committee on Administrative Reform, Special Committee on Election Laws and Committee on Finance. Mr. Namiki has graduated from Saitama University (Faculty of Liberal Arts).

KEYNOTE SPEAKERS AND STATEMENTS

Mr. Pier Carlo PADOAN is the OECD Deputy Secretary-General responsible for the Organisation's work on issues, such as innovation, science and technology. Prior to his appointment in 2007, Mr. Padoan, an Italian national, was Professor of Economics at the University La Sapienza of Rome and Director of the Fondazione Italianeuropei, a policy think-tank focusing on economic and social issues. From 2001 to 2005, Mr. Padoan was an Executive Director at the International Monetary Fund. From 1998 to 2001, Mr. Padoan served as Economic Adviser to the Italian Prime Ministers Massimo D'Alema and Giuliano Amato, in charge of international economic policies. Mr. Padoan has a degree in Economics from the University of Rome and has held various academic positions in Italian and foreign universities, including at the University of Rome, College of Europe (Bruges), Université Libre de Bruxelles, University of Urbino, Universidad de La Plata, and University of Tokyo.

Mr. Per M. BAKKEN is the Acting Deputy Director of UNEP, he was appointed Head of Chemicals Branch in 2007. Mr. Bakken has a broad experience and overview of UN related and other issues. He has worked in various positions in the Norwegian Government for 20 years. He was the Chief negotiator for Norway on several international treaties, including several protocols under the UNECE LRTAP, the Vienna Convention and Montreal Protocol and the IPCC, and participated in the negotiations on the Climate Change Convention. In the UN he has worked as Head of the Revitalization Team for UNHABITAT, as Officer in Charge of the Secretariat of the Basel Convention (SBC), as Deputy Director for Division for Technology, Industry and Economics (DTIE) and as Director of the International Environmental Technology Centre (IETC) in Japan. He holds a Cand.real degree in Biology and Chemistry from the University of Oslo.

Mr. Ernst Ulrich von WEIZSÄCKER is Co-Chair of the International Panel on Sustainable Resource Use and Co-Chair of the China Council Task Force on Economic Instruments for the Environment. He is also Dean of Donald Bren School of Environmental Science and Management, UC Santa Barbara, USA. Mr. von WEIZSÄCKER has been President of the Wuppertal Institute for Climate, Environment, Energy and Member of the German Parliament (SPD), where he was Chairman of the Select Committee on Globalization, later Environment Committee. He is a member of the Club of Rome, European Academy of Arts and Sciences, and World Academy of Art and Science.

Mr. Masayoshi NAMIKI (see above).

Dr. Stephan BRINGEZU is Director of the Research Group on Material Flows and Resource Management; biologist by training, Ph.D. in ecosystems analysis; Habilitation (Professorial degree) at Faculty of Environment and Society, Technical University Berlin. Prior affiliations with University Bayreuth, German Federal Environment Agency (Chemicals Assessment department), University of Dortmund (Visiting Professor and Acting Head of the Department of Supply Systems and Environmental Planning); he lectured at several universities, initiated scientific networks (ConAccount, cofounder of ISIE), and pioneered on methods such as MFA and derived indicators; Member of various advisory boards, Member of the International Panel on Sustainable Resource Management; his main subject is the analysis of the socio-industrial metabolism and the instruments to sustain the resource supply, use and waste management.

Professor Philippe CHALMIN is a Member of the Council of Economic Advisers in the Office of the French Prime Minister. He is also Professor of Economic History at Paris-Dauphine University and head of the Master of International Affairs. He is the founding chairman of "CyclOpe" commodity research institute. Prof. Chalmin is a former chief economist of Euler, the world's leading credit insurance company and a former professor at the Conservatoire National des Arts et Métiers (Paris). He is a graduate from HEC business school (1974) and has a doctorate in economic history (doctorat d'état es lettres) from the Sorbonne University (1981).

Mr. Kohmei HALADA is Managing Director of the Innovative Materials Engineering Laboratory at the National Institute for Materials Science (NIMS). His specialities include metallurgy, eco-material and LCA. He was appointed Director-General of the NIMS Ecomaterials Center in 2002. Mr. Halada is Vice-president of the Institute of Life-cycle Assessment, Japan; Secretary-General of Ecomaterials Forum Japan; Executive Board member of Eco-Design Promotion Network; Steering Committee member of Japan Institute of Metals; and Associate member of Science Council of Japan. He has a Ph.D in Engineering from the University of Tokyo.

Dr. James (Jim) FAVA is Managing Director of Five Winds International, a management-consulting firm that helps organizations improve the economic, environmental and social performance – the sustainability – of their operations, products and services. The company has offices in the USA, Germany and Canada. He played a critical role in the creation of the ISO 14000 TC-207 Environmental Management System series of standards where he was deeply involved in the development of the Life Cycle Assessment (LCA) and Integrating Environmental Aspects into Product Design and Development standards. He is a past President of Society of Environmental Toxicology and Chemistry (SETAC) and Immediate Past-President of the Brandywine Valley (Watershed) Association. Currently he is Chair of the Executive Committee for the UNEP/SETAC Life Cycle Initiative. For the past 10 years he has managed the Product Sustainability Round Table a group of leading companies that share best practices for implementing product sustainability.

PANEL A – CHAIR AND PANELLISTS

Mr. Timo MÄKELÄ is Director – Sustainable Development and Integration – at DG Environment of the European Commission. His present responsibilities include sustainable development and economic analysis, sustainable production and consumption - including waste management, environmental research, science and innovation policies as well as environmental policies for the industry. He has also held other positions at the European Commission, including those of Head of European Commission Representation, Finland and Head of Unit, DG Environment. Prior to joining the European Commission, Mr. Mäkelä worked at the European Bank for Reconstruction and Development in London and at the Ministry of Environment in Finland. He has a Master of Technological Sciences (civil/water, sanitation and land use) from Helsinki University of Technology, Finland and a Post-graduate Diploma in Sanitary Engineering (with distinction), IHE, the Netherlands.

Prof. Mark James MWANDOSYA (see above).

Ms. Susanne LOTTERMOSER is the Deputy Director-General for “Strategic and Economic Aspects of Environmental Policy, Cross-sectoral Environmental Legislation” at the Federal Ministry for the Environment in Germany. Prior to her current appointment, she has held several positions in the Ministry, including those of Personal Secretary to the Minister and Head of the Minister’s Office. She has also worked in the Permanent Representation of Germany to the EU in Brussels. Ms. Lottermoser has a law degree and doctorate from Würzburg University.

Ms. HUANG Miao works as Project Officer in the Department of International Cooperation of Ministry of Environmental Protection China (MEP). She has directed or been involved in a broad range of projects, including OECD-China Project: Environmental Performance Review in China; China-Japan-Korea Environment Ministers Meeting; ASEAN+3 Environment Minister Meeting and Senior Official Meeting; Greater Mekong Subregion (GMS) Environment Cooperation; EU-China Biodiversity Programme and China-Africa Environment Meeting. Her research is on regional environment governance, on which she has published several articles, including: International Environmental Cooperation: China’s Perspective, Environmental Protection, 3A.2008; Global Environment Governance: a Perspective of Development Aid, World Environment, 04.2007; International Environment Aid: China Experience, Environment Economy, Oct 2004; International Organization in China: Case study of WHO Activities to Confront SARS, Study and Research, Oct.2003; and The Integration of EU, People’s Daily, June 16, 2002.

Mr. Derry ALLEN is Counselor, National Center for Environmental Innovation, at the U.S. Environmental Protection Agency. In this job he is involved in a number of issues concerning environmental innovation, sustainability, environmental stewardship, planning and information, working on both national and international projects. Mr. Allen has served at EPA since 1978, where he has held a variety of positions, principally in the Policy Office. He earned his B.A. with Honors at Yale University and his M.B.A. at the Harvard Business School. He has also participated in the Program for Senior Managers in Government at the Harvard University Kennedy School of Government.

PANEL B – CHAIR AND PANELLISTS

Mr. Carlos BUSQUETS is responsible for international policy matters related to climate change, sustainable development, trade and environment, as well as biodiversity at the International Chamber of Commerce (ICC). ICC is a multi-sectoral business organization with member companies in over 130 countries which works closely with the United Nations and other intergovernmental organizations to provide business views on environmental and other issues. As a former international trade negotiator for the U.S. Department of Commerce, Mr. Busquets participated in the negotiation and implementation of bilateral and regional agreements in the Western Hemisphere. More recently he spent time at the OECD Trade Directorate analysing issues related to trade and environment, trade facilitation, and internationalization for small and medium-sized enterprises. In addition to his experience in governmental and international institutions, Mr. Busquets began his career in the private sector with Mattel Toys working on international issues from the perspective of a large multi-national firm. Mr. Busquets has a Master of Arts degree in International Political Economy from American University in Washington DC and a Bachelor of Arts in International Studies from the University of South Florida.

Dr. PARK Young-Woo is President of the Business Institute of Sustainable Development (BISD) at Korea Chamber of Commerce and Industry (KCCI). Prior to this, he was Director-General of the International Cooperation Bureau in Ministry of Environment and Director of Cleaner Production Policy and Technology Development Office in National Cleaner Production Center, established by the Ministry of Commerce, Industry and Energy. Has been a member of the Presidential Council for Sustainable Development (PCSD) since 2000, and was recently

appointed as chairman of the Business and Civil Society Cooperation Committee in city of Seoul. Dr. Park has a Ph.D in Natural Resource and Environmental Economics from Iowa State University.

Mr. Dirk HAZELL has been Chief Executive of the Environmental Services Association since 1999. During this period, the UK has made substantial progress from relying on disposal towards recycling and recovery of waste. Within the UK, ESA has led debate on modernising environmental regulation and the alignment of economic and environmental sustainability has been a key objective of ESA. He serves on the Management Committee of the European Federation of Waste Management and Environmental Services (FEAD) and on the Environment Committee of BIAC. Formerly he ran the trade association for the international capital market and was European General Counsel for a large investment bank. A graduate of the University of Cambridge, he is a Member of the English Bar.

Mr. Jérôme LE CONTE is Member of the Board - CEO France - Benelux & Switzerland in charge of recycling and material recovery in Europe, at Veolia Environmental Services. Prior to this appointment in 2006, he was Regional Director of Société Auxiliaire d'Entreprises (SAE) in Nigeria, Indonesia, Saudi Arabia, China; and Vice-President of SAE in the United States. He was nominated as the Vice-Director General of SAE in 1990 and joined the American Waste Management as CEO of the Waste Management France Holding in 1992. He has also headed NIRAO CONSULT, a consultancy in environment engineering.

PANEL C – CHAIR AND PANELLISTS

Dr A. Michael WARHURST has been working for Friends of the Earth in London as the senior campaigner in the Reduce Resource Use team since November 2005. His work focuses particularly on EU and UK waste and resources policy, and he is heading up Friends of the Earth Europe's Resources and Waste campaign. Prior to returning to Friends of the Earth in 2005, he spent most of the previous 8 years working on chemicals policy, with a particular focus on the EU's new REACH chemicals regulation (Registration, Evaluation and Authorisation of Chemicals), initially at Friends of the Earth in London, and then from 2002 at WWF's European Policy Office in Brussels. He has had extensive engagement in the debates around REACH, including the issues around regulation, innovation and competitiveness. During 2005 he spent 9 months working on US chemicals policy at the Lowell Centre for Sustainable Production in Massachusetts, USA. He has a Degree in Biochemistry from the University of York, UK, a PhD (in the breakdown of chemicals by bacteria) from the University of Glasgow, UK, and an MSc in Environmental Chemistry from the University of Edinburgh, UK.

Ms. Doreen FEDRIGO is the EU Policy Unit Coordinator at the European Environmental Bureau (EEB), Europe's largest federation of environmental citizens' organisations. She is responsible for the organisation's work on sustainable consumption and production, and on natural resources. She has worked for the EEB since January 2006, starting with a focus on the European Ecolabel then broadening to waste and product policy before moving into her current role. She has more than 15 years' experience of working for NGOs on policy issues, having worked at national level in the UK on broader environmental policy and then specialising in waste policy. She studied Ecology and Conservation at Birkbeck College in London, making a departure from Business in Fashion studies in Toronto, Canada where she was born.

Mr. George C. VARUGESE is President of Development Alternatives. He has conceptualised and spearheaded several of the major initiatives including the Community Led Environment Action Network (CLEAN-India), Corporate Environment and Social Responsibility, Development Alternatives Information Network (DAINET), and the Poorest Areas Civil Society (PACS) Programmes. He is a member of several international and national governing bodies, advisory panels and working groups on environment and development issues, including the World Bank

Community Development Carbon Fund, the Global Water Partnership, UNEP Global Environment Outlook, IUCN, the Planning Commission and various ministries of the Government of India. He has also spearheaded several NGO initiatives.

Mr. Phil PEARSON is a Senior Policy Officer in the TUC's Economic & Social Affairs Department. His main policy areas include energy and climate change policy, transport, regional policy and the wider sustainable development agenda. He has lead responsibility for developing the TUC's greenworkplaces project - joint union-employer initiatives to promote sustainable workplaces. An increasing priority for the TUC has been to develop an effective trade union response to the challenging shift to a low carbon economy, both nationally and globally. He is a member of the European Trade Union Confederation's working group on sustainable development, and currently chairs the ITUC's working group on climate change.

PANEL D – CHAIR AND PANELLISTS

Mr. Ulrich BENTERBUSCH is Director of the Heiligendamm Dialogue Process Support Unit. At the 2007 G8 Summit in Heiligendamm, Heads of State and Government of G8 and of Brazil, China, India, Mexico and South Africa decided to continue their political dialogue after the summit in a more structured manner. Mr. Benterbusch provides strategic direction and leadership for the HDP-Support Unit for global political dialogue on four key issues: innovation/IPR, investment, development and energy efficiency. Prior to this appointment, he was Director of the German G8 World Economic Summit Office at the German Federal Ministry of Economics and Technology (BMWi). Mr. Benterbusch has also held positions in the German Federal Chancellery, where he was Head of Foreign Economic Affairs, and the Federal Parliament (Deutscher Bundestag). Mr. Benterbusch has a Diploma in Administrative Science (Verwaltungswissenschaften) from the University of Konstanz, Germany and has obtained the German State Examination (equivalent to a Master's Degree) in Public Administration and Economic Management.

Mr. Jürg GERBER is currently the Managing Director at the World Business Council for Sustainable Development (WBCSD) in Geneva. He is seconded there from Alcan Inc, Corporate and External Affairs. Mr. Gerber has a broad experience in the aluminium industry, over 27 years in various line and staff functions, on corporate and plant levels. In the WBCSD, he already enabled a joint task group between WEF and WBCSD to become the business voice for the G8 / Gleneagles Dialogue, which will be followed by other collaborations. Mr. Gerber strongly supports the entire aluminium sector through his previous contributions in key expert groups of the International Aluminium Institute (IAI) and its networks. He has also been the Chairman for the Global Aluminium Recycling Committee since it was initiated five years ago.

Mr. Siddhartha MITRA has joined CUTS International recently as Director (Research) responsible for providing research guidance to two of its centres, CITEE and C-CIER. He was awarded his Doctoral and Master's degree in Agricultural and Resource Economics by the University of Maryland at College Park, USA. He also has a Masters degree in Economics from the Delhi School of Economics. His research interests lie in the field of development economics, environmental economics, political economy and economics of peace. He has been a prolific researcher with around 40 publications in national and international journals and a edited volume published by Routledge to his credit. He has lectured and given seminars all over the globe in Asia, Europe, United States and Australia. He has served on consultative committees to the Ministry of Environment, Government of India and also as consultant to the National Council of Applied Economic Research (NCAER), New Delhi and Center for Development Research (ZEF), Bonn. Dr. Mitra has taught economics at the University of Melbourne, Indian Statistical Institute, New Delhi and the Gokhale Institute of Politics and Economics, Pune.

Ms. Marie-France HOUDE is senior economist in the Investment Division of Directorate for Financial and Enterprise Affairs at the OECD. She is responsible for OECD work on the

Guidelines for Multinational Enterprises, which are recommendations addressed by governments to multinational enterprises operating in or from adhering countries. They provide voluntary principles and standards for responsible business conduct in a variety of areas including employment and industrial relations, human rights, environment, information disclosure, combating bribery, consumer interests, science and technology, competition, and taxation.

MODULE 1 – CHAIR AND INVITED SPEAKERS

Mr. Øyvind LONE is a senior adviser in the Ministry of Environment, Norway; he has also served as Deputy Director General in the same ministry. Mr. Lone has been closely involved in OECD work for a long time and has chaired the OECD Working Party on Environmental Performance since 1997. He has also participated in the UN ECE Joint Task Force/Joint Working Group on Economics and Environment (1989-92), UN ECE Task Force on Economic Aspects of Abatement Strategies (1991-94), OECD Group on the State of the Environment (1987-1991), and OECD Working Party on Environmental Performance (1991 to date). Mr. Lone holds a Master's degree from the University of Oslo and has published several papers on environmental and natural resource accounting. His selected papers (in English)

Dr. Yuichi MORIGUCHI is Director, Research Center for Material Cycles and Waste Management, National Institute for Environmental Studies, Japan. He is also a Visiting Professor at Graduate School of Frontier Sciences, University of Tokyo. His research field covers the prevention of transport pollution, GHG emission inventory, life cycle assessment, material flow analysis, and environmental indicators. In his early career, he had also worked for the Environment Agency of Japan and for the OECD Environment Directorate in Paris. He chairs the OECD Working Group on Environmental Information and Outlooks, and is an inaugural member of the International Panel for Sustainable Resource Management. He contributes to a number of advisory committees for the Ministry of the Environment and other governmental institutions, and acts as a member of council/editorial board of several scientific societies in Japan.

Mr. Stefan GILJUM has an interdisciplinary master in "Human Ecology and Environmental Economics" and a Ph.D. in "Social Ecology" from Vienna. He was visiting scholar at the Universidad de Chile in Santiago and at the University of Keele, UK. Since 1999, he is working as a researcher at SERI, since 2007 he is head of the research group "Sustainable Resource Use". He works and publishes in the areas of physical accounting, economic-environmental modelling, and the links between international trade, environment and development.

Mr. Edgar HERTWICH is a Professor at the Department for Energy and Process Engineering and director of its Industrial Ecology Program at the Norwegian University for Science and Technology in Trondheim, Norway. He has a Bachelor's degree in physics from Princeton University and a Master and PhD in energy and resources from the University of California, Berkeley. His research interests cover life cycle assessment, sustainable consumption and production, climate policy and environmental risks.

Mr. Jan KOVANDA is a research fellow at the Charles University Environment Center in Prague in the Czech Republic. His main area of research is environmental accounting and relevant indicators. He has been above all focused on socio-economic metabolism issue, particularly economy-wide material flow analysis and indicators.

Mr. Peter T. JONES is a Director of Biffa Waste Services Limited with specific responsibilities in external affairs and strategy development. He has 18 years experience in the waste industry - all with Biffa - before which he has worked in the welding, pallet hire, parcels and industrial gases sectors. He is a member of the Chartered Institutes of Marketing, Transport, and Wastes Management, and operates in roles demanding specific skills in the development and management of change processes in sectors undergoing substantial upheaval due to

competitive, regulatory, or other pressures. Peter is chair of the DEFRA/DTI Resource Efficiency KTN which he carried on from the chairmanship of the Mini-Waste Faraday. He also sits on the DEFRA New Technologies Demonstrator Programme, their Data Advisory Panel, and the Sustainable Consumption and Production Taskforce (for which he chairs a subcommittee looking at the issues around distributed energy systems in the UK). He has also given evidence to a range of Parliamentary Select Committees over the years on the subjects of waste, sustainability, resource efficiency, and other issues relating to future environmental challenges faced by society. He qualified from Nottingham University as an industrial economist in 1969, and in July 2007 received an honorary degree from the University of Southampton. In the environmental arena.

Dr. Sangwon SUH is an Assistant Professor at the Dept. Bioproducts and Biosystems Engineering of University of Minnesota, USA. Dr. Suh is teaching “Natural Resources Consumption and Sustainability” course and “Life Cycle Assessment” course, and is currently conducting 6 research projects sponsored by governmental and non-governmental institutions of Europe, Asia and the U.S. For the past 6 years, Dr. Suh authored and co-authored 2 books and about 30 peer-reviewed articles in various journals encompassing Ecology, Environmental Science and Engineering and Economics. Dr. Suh was recently elected as a counsellor of the International Society for Industrial Ecology (ISIE) and is also serving as a subject editor of the International Journal of LCA.

Prof. Jyri SEPPÄLÄ is a Research Manager of the Production and Consumption Programme at Finnish Environment Institute (SYKE). He has been in charge of several extensive R&D projects and his main area of specialization has been to perform complete environmental impact assessments of different products, services and sectors (industry, municipalities etc.) in order to increase eco-efficiency and to enhance integrated product policy. He has developed the life cycle impact assessment methodology in the context of SETAC/UNEP Life Cycle Initiatives.

Mr. István POMÁZI is a chief adviser, Ministry of Environment and Water, Budapest, Hungary. He is a Vice-Chair of OECD Environment Policy Committee and Vice-Chair of Working Party on Environmental Performance. **Mr. Elemér SZABÓ** is chief counsellor, Ministry of Environment and Water, Budapest, Hungary. Mr. Szabó is a member of the OECD Working Group on Environmental Information and Outlooks. Both of them published a book on social metabolism and several articles on material flow analysis.

Mr. Suren ERKMAN is a Co-founder and President of SOFIES Sàrl (Solutions for Industrial Ecosystems), a consulting company based in Geneva, Switzerland. He is an independent scientific writer and consultant, he is also the founder and director of Institute for Communication and Analysis of Science and Technology (ICAST), Geneva. ICAST's mission is to provide information in a readily accessible form on scientific and technological issues. He is also an international consultant for UNEP, UNDP, GEF (Global Environmental Facility), Swiss and foreign government agencies, media, foundations, NGOs and various private companies.

MODULE 2 – CHAIR AND INVITED SPEAKERS

Mr. Aldo RAVAZZI DOUVAN heads the Economic Research Department of IRI, the Italian holding of public enterprises (largest conglomerate in Europe in the 80-90s), where he has worked as an economist for the past 15 years. Since 2001 he has been Coordinator of the Italian Environmental Authority for EU Structural Funds, at the Ministry of Environment, Land & Sea; he has also been a co-promoter of the EU-ENEA (European Network of Environmental Authorities for cohesion policy) and of the EU GRDP project (Greening Regional Development Programmes). In 2003 he was elected Vice-Chair of the OECD Working Party (WP) on

Environmental Performance (Country Reviews and Indicators); in 2005 Vice-Chair of the OECD Transport & Environment Group, Chair of the OECD WP on National Environmental Policies and Co-Chair of the Taxation & Environment Experts Group. He represents also Italy at the OECD-EPOC Committee. He is the Italian National Focal Point for the G8 3R Initiative.

Mr. Lars Fogh MORTENSEN is heading the group on Sustainable Consumption & Production (SCP) and Waste in the European Environment Agency (EEA). Mr. Mortensen is Economist by training and has over 15 years of experience working on sustainable development. He joined the European Environment Agency in 2003. Previously, Mr. Mortensen has worked at the OECD, at the Danish EPA and in the Secretariat of the United Nations Commission on Sustainable Development (UNCSD). In the EEA, Mr. Mortensen has among many other tasks written the report "Household consumption and the environment" and managed the preparation of the report "Effectiveness of packaging waste management systems in selected countries: an EEA pilot study". Previously, he was one of two lead authors of the first OECD Environmental Outlook and led UNCSD work on sustainable development indicators.

Dr. Yasuhiko HOTTA is a Policy Analyst for Waste and Resources Project at the Institute for Global Environmental Strategies (IGES), Japan. He holds PhD in International Relations from University of Sussex. His research focuses on the effects of globalization on reform in environmental policy. In IGES, he is in charge for the project to support Ministry of the Environment, Japan for promotion of G8's 3R Initiative.

Dr. Anthony CHIU is a Professor at De La Salle University in Manila. He works in the field of Cleaner Production, Operations Strategy, and Eco-Industry Development. He has conducted Eco-Industry Development workshops in various countries and for many international organisations (e.g. UNEP, UNIDO). Dr. Chiu is the Asian editor of Progress in Industrial Ecology Journal and Journal of Cleaner Production.

Ms. Sara HARTWELL an analytical chemist at the United States Environmental Protection Agency's Office of Solid Waste (EPA/OSW). Her work at EPA focuses on collaborations with a wide range of manufacturers, retailers, trade associations and NGOs to manage materials more efficiently. Much of her work focuses on packaging, with emphasis on design for source reduction and recyclability, as well as material collection and processing strategies. Ms. Hartwell is on the Steering Committee of Wal-Mart's Packaging Sustainable Value Network, and is participating in the design and implementation of Wal-Mart's Packaging Scorecard. Ms. Hartwell works with consumer packaged goods companies (CPGs), packaging manufacturers and other retailers through her role on the Executive Committee of the Sustainable Packaging Coalition, which has included development of a consensus definition of sustainable packaging, as well as on-going projects to develop measurement tools and labeling options to communicate sustainability benefits to consumers.

Mr. Jürgen GIEGRICH is member of the board of directors and head of section at the IFEU-Institute (Institut für Energie- und Umweltforschung Heidelberg - Institute for Energy and Environmental Research), where he has been working on waste management, environmental impact assessment (EIA), life cycle assessment (LCA) and material flow analysis since 1986. Mr. Giegrich has directed several research studies, including "Ecological balances in waste management" for the Environmental Agency and Environmental Ministry in Germany, which laid the basis for the methodological approach of LCA in waste management in Germany. He recently directed a study about the achievements of the waste management strategy of Germany and its consequences for the near future. Now he is involved in the development of indicators for resource use. He is member in the national standardisation body of DIN and delegate to ISO in the field of environmental management for developing standards for Life Cycle Assessment with the focus on impact assessment. He is also a member of the International Expert Group on LCA in waste management.

Dr. Johann FELLNER he has been working as a research associate at the Institute for Water Quality, Resources and Waste Management at the Vienna University of Technology since 2000. His research interests are in the area of sustainable waste management with focus on landfilling. Additionally he addresses the problem of technology transfer for developing countries in the field of waste management.

Ms. Rut BIZKOVA is the Deputy Minister of Environment of the Czech Republic and Director of Environmental Economy and Policy Division of the Ministry. She is the editor of the publication "Environment of the Czech Republic 1989-2004", and author of numerous analyses of environmental impacts of industry and energy development. Prior to her current appointment, she held senior positions in the Ministry of Industry and Trade and in the Czech Environmental Information Agency.

Mr. Pierre PORTAS created the non-governmental organisation Waste-Environment Co-operation Centre in 2007. Biologist by training, he joined the international office of WWF in 1976, and then worked for the IUCN from 1979 to 1988. In 1989 he was asked to set up the Secretariat for the Basel Convention administered by UNEP, where he held various functions until 2007.

MODULE 3 – CHAIR AND INVITED SPEAKERS

Ms. Elizabeth (Betsy) SHAW is director of the U.S. Environmental Protection Agency's (EPA's) National Center for Environmental Innovation. The Center has responsibility for testing, evaluating, and implementing new environmental protection strategies that contribute to: 1) bringing about a more performance-oriented regulatory system that allows flexible strategies to achieve measurable environmental results; 2) promoting strong environmental stewardship in all parts of society to support sustainable development and pollution prevention; and 3) creating a culture of creative environmental problem-solving that encourages collaborative, results oriented work. Betsy leads the Agency's Innovation Action Council, (EPA's "steering committee" for innovation), runs a State Innovation Grant program, administers an internal cross-Agency program evaluation competition, and coordinates across EPA's partnership programs, among many other activities. Betsy has an undergraduate degree from Smith College and a Masters in Public Administration from the John F. Kennedy School of Government at Harvard.

Mr. Martin CHARTER is the Director of The Centre for Sustainable Design at University College for the Creative Arts (UCCA) and a former Visiting Professor of Sustainable Product Design at UCCA before joining full-time. Since 1988, he has worked at director level in 'business and environment' issues in consultancy, leisure, publishing, training, events and research. Prior to this he held in a range of management positions in strategy, research and marketing in gardening, construction, trade exhibitions, financial services and consultancy including Save & Prosper Group, Reed International, Creative Marketing Group and Kiveton Park (Holdings) Ltd.

Mr. Arne REMMEN is Professor in Technology, Environment and Society at Aalborg University, Department of Development and Planning, and with a Ph.D. in Technology Assessment. Arne has been scientific leader of several research projects regarding strategies for Sustainable Development, Environmental policy and regulation, Eco-design and eco-innovations, etc. He has authored and co-authored more than 150 articles, reports and books on technological change, environmental management in industry and public policy. Arne has also taken part in writing the UNEP/SETAC introduction to Life Cycle Management – a Business Guide to Sustainability.

Dr. Inge PAULINI is head of the department "Sustainability Strategies and Information" and has been working on environmental strategies; international environmental regimes, politics and policies; environment and tourism; environment and agriculture and food production; environmental information, indicators and environmental reporting. During the last years, one

major field of her interest and work was the use of natural resources, including indicators, instruments, and (political) strategies toward more resource efficiency.

Mr. Henrik ÖSTERLUND, M.Sc. (tech.), works at Motiva Ltd as head of the material efficiency unit. Motiva Ltd is a state owned non-partial expert organisation promoting efficient and sustainable use of energy and materials in Finland. The material efficiency unit provides tools and services which help companies to improve their material efficiency. Prior to his present position Henrik Österlund worked ten years as an environmental consultant and helped companies to manage their environmental issues. His strongest expertise fields are material efficiency, product oriented environmental management, life cycle thinking and environmental performance indicators.

Mr. Arnold BLACK is the Director of the Resource Efficiency Knowledge Transfer Network (RE KTN) since 2006. He is responsible for delivery of the wider programme through an intelligent, interactive e-portal supported by a Web administrator. In this key role Arnold reports to an Industrial Steering committee, which includes the Technology Strategy Board (part of DUIS), BERR, the Environment Agency, WRAP, the CBI, NISP, Envirowise, EPSRC and key industrial collaborators. The Network also has a strategic partnership with the National Industrial Symbiosis Programme, which seeks to promote business to business collaboration to reutilise waste materials. The Resource Efficiency Knowledge Transfer Network offers the National Industrial Symbiosis Programme technological support both regionally and at a national level.

Mr. Lionel PLATTEUW is Executive Director of the European Water Partnership, a multi stakeholder organisation established in Belgium in 2006 to facilitate communication within the water sector, to improve communication with the main European institutions and to foster cross disciplinary links on water issues and raise awareness. His main area of expertise is EU policies and industry research, including regulations in environment, water, energy, and waste management. Lionel Platteuw has worked for more than 15 years in Brussels providing consultancy services for European industry associations. He is a graduate of ESCP-EAP with a Masters in European Business Management

Mr. Norio TAKEYAMA graduated with Master degree in Graduate School of Engineering, Nagoya University. He developed a streamlined LCA tool and works with Toshiba as being Chief Specialist in corporate environment management division to promote environmentally conscious products in Toshiba. He is an international expert of IEC/TC111/WG2(ECD).

Mr. Ralf PFITZNER is the Department Head for Product-Related Environmental Protection of Siemens AG. The department is responsible for Siemens' internal Standard for environmentally compatible products & systems, for the implementation of product related environmental legislation and contributes to the development of Siemens' Environmental Portfolio. Before he joined Siemens in 2004, Ralf Pfitzner was a Senior Executive at KPMG Sustainability Services, where he led a wide area of projects in the field of Environmental & Quality Management and Climate Change.

Ms. Virginia ALZINA GARCIA is Director of Regional Activity Center for Cleaner Production, Barcelona United Nations Environment Program, Mediterranean Action Plan (UNEP/MAP), where she directs, supervises, and promotes activities in the 21 Mediterranean countries. Her primary responsibilities are related to technical assistance in (a) cleaner production and cleaner technology in the industry, service, and agricultural sectors; (b) sound chemical management, including Persistent Organic Pollutants (POPs), and Strategic Approach to International Chemical Management (SAICM); (c) Sustainable Production and Consumption; (d) energy efficiency, reduction of greenhouse gas emissions and climate change; and (e) Environmental Management Systems, Life Cycle Analysis, Methodologies to minimize pollution and the use of natural resources, Eco-design, among others. Prior to joining UNEP, Ms. Alzina worked for the Inter-

American Development Bank in Washington DC. She has a Ph.D. in Engineering Management and Systems Engineering degree from the School of Engineering and Applied Science, George Washington University and a M.Sc. in Environmental Sciences and Policy degree, John Hopkins University.

MODULE 4 – CHAIR AND INVITED SPEAKERS

Ms. Birgitta LINDBLAD is Programme Director at the Jernkontoret – the Swedish Steel Producers Association. She is in charge of the research programme “The Steel Eco-cycle” and a project “Energy Competence in the Steel and Mining Industries”. Until last year, Ms. Lindblad was director of the Energy and Environment Department at Jernkontoret. The department works on all energy and environmental issues that are of interest to the steel industry. Since 1999, Ms. Lindblad has been an associate professor at the Royal Institute of Technology (department for Materials Science), where she has been responsible for the course "Energy and environment in the process industry".

Dr. John ATHERTON is a Senior Program Director of the International Council on Mining and Metals' (ICMM) Materials Stewardship work programme, which includes the development of policy on chemicals management, life cycle assessment, recycling and materials stewardship. Before joining ICMM, John was Director for Environment (Europe) at the Nickel Development Institute (NiDi). Moreover he served as the co-chair for an OECD collaborative group established to examine effective mechanisms for the collection and recycling of nickel-cadmium batteries. From 1991 to 1995 John worked within the Environment Department of the UK Government as a metals policy advisor.

Mr. Robert CHASE is the Secretary General of the International Primary Aluminium Institute (IAI) since 1997. The IAI is the Global Forum of the world's Aluminium Producers. The Institute has 25 Member companies and their CEO's represents them on the IAI Board of Directors. Together the IAI Member Companies represented more than 80% of world primary aluminium production. Before joining the IAI, Mr. Chase was the Director General of Trade and Investment and Consul-General in Milan, Italy. Mr. Chase holds a Masters degree in modern history.

Ms. Marlen BERTRAM joined the International Aluminium Institute (IAI) in January 2008 as Deputy Secretary General. Her role is to position the aluminium industry with regard to their sustainability and recycling qualification. Before joining the IAI, Ms. Bertram worked for the Organisation of European Aluminium Refiners and Remelters (OEA), as Manager Recycling Since 2004. She holds a degree as a Dipl.-Ing. in environmental science and process engineering.

Mr. Hans Sierd PIETERSEN is a programme-manager on the “Soil and Raw Materials”-project of the Dutch Ministry of Transport, Public Works and Water management. Since March 2007 he is the Seconded National Expert to the European Commission, DG Enterprise and Industry, Unit G3: Steel, non-ferrous metals, minerals and mineral products. Mr. Pietersen holds a BSc with the Mayor on Geochemistry and Minor on Environmental Geochemistry and Economic Geology. Furthermore he holds a Ph.D. in Civil Engineering.

Ms. Heloisa Vasconcellos de MEDINA is the vice-coordinator of a research team on Management of Industrial Product Design for Recycling at CETEM's (Center for Mineral Technology) Service of Environmental Management Unit since 2003. She holds a degree as an Economist and a MSc. and Ph.D. in Production Engineering. Before she joined CETEM as a senior researcher in materials innovation and mining and environmental issues 1991, she has been working at CNPq (National Foundation for Science and Technology) since 1980. Her focused research interest lies in sustainable development, technological innovation and industrial organization, especially concerning automotive industry.

Mr. Masayuki NAKA is a senior manager of Strategic Planning Department at Dowa Eco-System Co., Ltd, which was established in October 2006 as a subsidiary company of Dowa Holdings Co., Ltd. (Former Dowa Mining Co., Ltd.). He graduated from Kyoto University and joined Dowa Mining Co., Ltd. as a mining engineer in 1981. As the recycling law of home appliances started in Japan, he was engaged in launching the recycling business of waste electrical and electronic equipment in the company. Since then, he has been working on business development and planning by means of integration between mining & smelting business and environmental business.

Dr. Christian HAGELÜKEN is a senior manager for business development, market research & marketing in the Precious Metals Refining business unit of Umicore. Christian has 20 years experience in (precious) metals recycling and covers various working fields, from automotive and chemical catalysts to electronic scrap and fuel cell recycling. Since 2006 Christian is member of the steering committee of the StEP initiative of United Nations University (UNU). Christian Hagelüken holds university degrees in mining engineering and industrial engineering from RWTH Aachen, Germany, where he also received his Ph.D. in 1991.

Dr. Joachim LOHSE has headed the team of directors of the Öko-Institut since June 2003. Joachim Lohse studied Chemistry and Geosciences in Hamburg and Southampton, and attained his doctorate (Dr. rer. nat.) at Hamburg University in 1988. From 1989 to 2003, he was founding shareholder and member of the board of directors of Ökopol, Institut für Ökologie und Politik GmbH, an environmental policy institute in Hamburg. He has been and continues to be a member of various national and international expert groups on best available technologies in diverse industrial sectors, on chemicals policy, on ecolabelling and integrated product policy, and on waste management. He advises a broad range of stakeholders in these issue areas.

Ms. Maaïke FLEUR joined GRI in April 2007 as Sector Supplement Manager. She is responsible for developing and managing sector supplement projects. She currently works on airports, metals & mining, oil & gas, retail, automotive and food processing sector. From 2002 to 2007 Ms. Fleur was the Dutch Project Manager for the European Eco-label and she facilitated several criteria development projects. Previously, she worked at the Alternative Consumer Bond where she organized the publication of a book on 'fair and green shopping' and later on she worked for a sustainable investment program as sustainability analyst. Maaïke holds a Bachelor degree in Environmental Technology and a Masters of Science in Physical Geography, from the University of Amsterdam.

Mr. Alain DUBREUIL is a Research Scientist working since 1989 for CANMET – Mining and Mineral Sciences Laboratories, Natural Resources Canada. He holds a B.Sc. in Chemistry as well as a M.Sc.A. and a Ph.D. in Metallurgical Engineering. Mr. Dubreuil's task is to plan, organise and control international activities leading to a better understanding by decision makers of environmental issues related to mining, metal production and recycling in the life cycle assessment (LCA) context, including the metal toxicity and fate.

MODULE 5 – CHAIR AND INVITED SPEAKERS

Mr. Agustín GARCÍA-LÓPEZ is the Permanent Representative of Mexico to the OECD. Prior to this appointment, he was Chief Executive for Mexico and the Dominican Republic to the Inter-American Development Bank and to the Inter-American Cooperation for Investments. During his tenure at the IDB, Mr. García-López served as Chair of the Budget and Financial Policies Committee, Chair of the Executive Committee of the Inter-American Corporation of Investments, Chair of the Auditor Committee, and Dean of the Board of Executive Director. Mr. García-López also represented Mexico at the Multilateral Investment Fund. He has taught international economics at the Universidad Nacional Autónoma de México (UNAM), Universidad Iberoamericana, ENEP Acatlán and the Instituto Matías Romero. He received his degree in

Economics from Columbia University, New York and a Masters in Economics from the same university.

Dr. Gerald REBITZER is responsible for Product Stewardship, i.e. product related sustainability aspects, within Alcan Packaging, globally. He holds a Ph.D. in Life Cycle Management from the Swiss Federal Institute of Technology Lausanne and a Masters in Environmental Engineering from the Technical University Berlin. Besides his Alcan Packaging internal tasks, which focus on the implementation of product sustainability in the multinational's business processes and leveraging sustainability in cooperation with suppliers, customers, and other stakeholders, he is editor for The International Journal of Life Cycle Assessment, lecturer at the ETH Zurich, reviewer for the European Commission, leading related work within the UNEP/SETAC Life Cycle Initiative and the World Business Council for Sustainable Development. He has published more than 100 papers and book chapters related to life cycle assessment and sustainability.

Ms. Silke HERMANN is European Program Manager for Extended Producer Responsibility with AMD's Global Environmental Health and Safety Department, in Munich, Germany. Silke leads AMD's European strategy on product-related environmental issues like energy efficiency, ecodesign, climate protection issues, and existing and emerging EU legislation on electronic products (WEEE, RoHs, EuP, REACH...). As the company's climate policy ambassador, she participates in a variety of industry associations and environmental work groups at the German and European levels, including German ZVEI, German BITKOM, the ESIA, AeA and EICTA. Silke joined AMD in Dresden (Germany) in 2000 to manage the site's programmes on air quality and resource conservation. Before that she was a research scientist at the Technical University of Berlin specializing in economic and ecological optimization of processes within surface technology applications. She holds an engineering degree in Environmental Engineering from the Technical University of Berlin, Germany.

Ms. Kristin PIERRE is the founder and manager of the US Environmental Protection Agency's (EPA) Green Suppliers Network program. The Green Suppliers Network program is a joint program with the Department of Commerce, designed to provide technical assistance on 'green' manufacturing practices to large manufacturers and their supply chains. She has built her experience in environmental business practices with her prior position at the US EPA as the co-manager of the EPA's Environmental Accounting Project, which provided resources to support appropriate accounting methodology to establish the business case for pollution prevention projects. Ms. Pierre did her graduate work in International Environmental Policy at the University of Denver and her bachelor's at the University of Notre Dame.

Ms. Mary Ellen MIKA is Manager, Energy & Environment within the Steelcase Supply Chain Management department. She leads sustainability efforts for the department, including "green supplier" programs, assisting with materials chemistry and life cycle analysis efforts, and is responsible for energy purchases for Steelcase North America, including renewable energy pursuits. She assists suppliers to Steelcase's manufacturing locations throughout the world to support Steelcase's efforts to lead the office furniture industry in providing the most sustainable products. She has a B.S. in Biochemistry, an M.A. in Psychology and over 20 years of experience in the environmental field.

Mr. Joseph W. (Joe) ALLEN is currently the Director of Sustainable Development and Lifecycle Products for Caterpillar's global Remanufacturing business and is a member of Caterpillar's corporate Sustainable Development Team. As Director of Sustainable Development for the Remanufacturing Division, Mr. Allen has been actively engaged to remove tariff and non-tariff barriers to trade in remanufactured goods, particularly through the World Trade Organization, APEC, and bilateral trade agreements between the United States and its trading partners. His primary focus has been to accelerate advancement of Cat's lifecycle product strategy while

increasing awareness of the positive impact remanufacturing has on reuse, recycling, and sustainable development.

Mr. David PARKER is Head of Remanufacturing, Centre for Remanufacturing & Reuse at Oakdene Hollins, a resource management consultancy. After reading chemical engineering at Cambridge, David worked for ICI and DuPont in a number of roles. Initially he worked for the Group Energy Integration team, moved through operations support, R&D, new low energy polyester plant design, engineering and commissioning; and finally techno-commercial assessment of new technology options for plant upgrade on behalf of the global Polyester board. He joined Oakdene Hollins in 2001. Since then he has been involved in diverse activities related to waste and resources working with DTI, Defra and WRAP. A running theme has been remanufacturing which was his first project at Oakdene Hollins, and this has escalated into running the Defra BREW-funded Centre for Remanufacturing & Reuse.

Dr. Peter WHITE is Director of Global Sustainability at P&G. Based in Newcastle, UK, he chairs P&G's Sustainability Leadership Council - a global, business-wide group responsible for developing P&G's new 5-year Sustainability Strategy and Goals. Peter has worked for P&G for 17 years, during which time he has pioneered the use of LifeCycle Assessment to optimise products, packaging, and operations, and the use of LCA to design Integrated Resource and Waste Management systems. Prior to P&G Peter researched and lectured in Biological Sciences at the Universities of Oxford, California at Berkeley and Arizona.

Mr. Olli-Pekka MÄKIRINTALA is the Director of Positive Consumption of Nokia Devices. His tasks involve analysis and development of sustainability related business and technology opportunities. Olli-Pekka has also recently been the Program Director of Integrated Product Policy (IPP) –pilot program. IPP Pilot Program was a joint program between various stakeholders, Nokia and the EU Commission. He has also led Material Composition program in RosettaNet organization. The Rosettanet organization developed an industry wide solution for material composition exchange together with several global high tech. companies. Additionally, Olli-Pekka has been Nokia's representative in the EICTA (the European Information & Communications Technology Industry Association). He has also co-chaired an EICTA initiated effort to develop an international material declaration standard.

MODULE 6 – CHAIR AND INVITED SPEAKERS

Ms. Ana Lorena QUIROS LARA is the Partner in Charge/President of the ECO GLOBAL Advisors on Sustainable Development. She is also president of ALCALA, Latin American Life Cycle Association. Ms. Quiros is of Costa Rican nationality; she has Master's degrees in Engineering and in Sciences from Stanford University, California and a degree in Civil Engineer from the University of Costa Rica. She is also active in various professional and other associations, including CIFA, Federated Engineer and Architect Association of Costa Rica (Former President and current member of the Committee on Patrimony and Urban Development of the UPADI (Panamerican Union of Engineers) and AMCHAM, American Chamber of Commerce (Founder and President of the Social Responsibility Committee)

Mr. Gregory (Greg) NORRIS founded and directs Sylvatica, an international life cycle assessment firm (www.sylvatica.com) which consults on LCA to the UN, governments in the US and abroad, a variety of Fortune 500 companies, industrial associations, and smaller companies, and the non-profit sector. Norris manages the LCA-Into-LEED process for the US Green Building Council. He is Senior Fellow with GreenBlue, providing LCA guidance to their Sustainable Packaging Coalition, and through the SPC to Wal-Mart and the US EPA. Norris founded Earthster (www.earthster.org), an open source sustainable information platform, and New Earth,

a global fund for community-driven sustainable development (www.newearth.info). Norris teaches LCA at Harvard, and is Adjunct Lecturer at the Harvard School of Public Health. He holds adjunct appointments at the University of New Hampshire and the University of Maine, and is an editor for the International Journal of LCA and the Journal of Industrial Ecology.

Dr. Kazuhiko TAKEUCHI is the Professor of Graduate School of Agricultural and Life Sciences at the University of Tokyo (Todai). Educated and trained as a geographer at Todai, his research focuses on creating eco-friendly environments for a harmonious coexistence of man and nature, both on local and global scales. He is keenly interested in the restoration of ecosystem and effective utilization of environmental resources in Japan. At Todai, Dr. Takeuchi is a Special Advisor to the President, as well as the Vice President for International Relations. He is also the Deputy Executive Director of the Integrated Research System for Sustainability Science (IR3S), which was launched in 2005 as a research alliance, comprising of eleven Japanese universities/institutes, for establishment of the newly emerging discipline, sustainability science. He is the Editor-in-Chief of the journal "Sustainability Science".

Ms. Stefanie HELLWEG works since 2006 as a professor for Ecological Systems Design at ETH Zurich, where she is leading a group of 12 PhD and PostDoc students and research assistants. Her main research interests are the environmental assessment of chemical products/processes, consumer products, waste treatment/recycling, and wastewater treatment. Together with her collaborators, she is further developing methods for environmental assessments, e.g. the assessment of indoor pollutant exposure within Risk and Life Cycle Assessment and setting up a method for evaluating the environmental impact of water use. Ms. Hellweg studied Industrial Engineering and wrote her PhD on Life-Cycle Assessment of thermal waste treatment processes.

Professor Toolseeram RAMJEAWON is from the Department of Civil and Environmental Engineering at the University of Mauritius. His research interest is in the area of Life Cycle Assessments and Sustainable Consumption and Production. He has acted as Adviser on Environmental Management to the Government of Mauritius and is presently a Consultant to the Government for the development of a National Action Plan on Sustainable Consumption and Production. He is also actively involved in two regional networks, namely the African Roundtable on Sustainable Consumption and Production and the African Life Cycle Assessment Network.

Mr. Michael KUNDT is the Head of the UNEP/Wuppertal Institute Collaborating Centre on Sustainable Consumption and Production. As head of the CSCP, he coordinates the Centre's contribution towards the Marrakech process for implementing the 10-Year Framework of Programmes for Sustainable Consumption and Production. This involves consulting governments and international organisations on Sustainable Consumption and Production (SCP) and Resource Efficiency (RE) policies. He presently directs projects in the fields of SCP/RE and poverty reduction, policy assessment, SCP indicators, technology assessment, triple bottom line innovation management, sustainable consumption, product stewardship and the design of SCP/RE strategies based on multi-stakeholder approaches.

Dr. Detlev ULLRICH is a physicist and sociologist. He has a twenty year work experience in development co-operation. Since the beginning of 2008 he is in charge of the recently started sector project "Resource Efficiency and Urban and Industrial Environmental Management" commissioned by the German Ministry for Economic Cooperation and Development. From 2000 until 2007 he stayed in Rio de Janeiro leading the Environment and Energy Programme within the frame of the bilateral technical co-operation between Brazil and Germany. From 1988 to 2000 he worked as senior adviser for Urban and Industrial Environmental Management at the Head Office of GTZ (German Technical Cooperation) in Eschborn, Germany.

Mr. Smail ALHILALI is an Industrial Development Officer at UNIDO Environmental Management Branch. Since 2007, he is working at UNIDO HQ in Vienna and has in charge the implementation

of UNIDO Cleaner Production and Environmentally Sound Technology Transfer projects in China, India and South Africa; and the UNIDO E-waste management projects and activities in Africa and Asia. He joined UNIDO in 2003 as a director of Morocco Cleaner Production Centre. From 1994 to 2003, Mr. ALHILALI served in different positions within CNESTEN (National Centre for Energy, Science and Nuclear Technology) in Morocco. He is a mechanical engineer graduated from Ecole Mohamedia d'Ingénieurs, Rabat, Morocco and has a Master on Nuclear Safety Engineering from INSTN, Saclay, France.

Dr. Frank O'CONNOR is the Director of the Ecodesign Centre Wales. Frank's passion for environmental issues began in 1988 with his first project on end-of-life recovery issues. Since then Frank has worked in, or as a specialist advisor to, multinationals, SMEs, government organisations, higher education and NGOs in ecodesign and related issues resulting in setting up Ecodesign Centre Wales in 2006.

Dr. Peter JAHNS is the Managing Director of the Effizienz-Agentur North Rhine Westphalia since 1999. Before joining the Effizienz Agentur he worked from 1990 up to 1999 for the Ruhrkohle Umwelttechnik GmbH as a Project Manager for Site Remediation. Mr. Jahns hold a Master's degree in Engineering.