

Transforming Transportation

TRB Sessions
TRB 86th Annual Meeting
January 21st, 2007
Wardman Park Marriott



NANCY KETE, PH.D.

A geographer, Nancy Kete has always been attracted to large-scale problems at the energy/environment interface. Her academic and professional work aimed at finding solutions to the acid rain problem in North America resulted in the 1990 Clear Air Act Amendments. She was the principal architect of the acid rain control provisions of that law, which represent the first large-scale practical application of a tradable emissions program. She has been a senior policy advisor in the US government on matters of air pollution, global warming, and the interface of trade and environment issues. She has extensive negotiating experience, having been part of numerous US delegations to international environmental negotiations and having served as the Science Advisor for Environmental Affairs for the US Mission to the OECD, where she co-chaired the Joint Experts Group on Trade and Environment. After resigning from the US government she directed the Climate, Energy and Pollution program for five years at the World Resources Institute, until she became managing director of *EMBARQ*, the WRI Center for Transport and the Environment.

LEE SCHIPPER, PH.D.

Prior to joining *EMBARQ* as Director of Research, Dr. Schipper was a guest researcher at the OECD Development Centre, Paris, and transport advisor to the Shell Foundation. From 1995 until 2001, Dr. Schipper was a senior scientist at the International Energy Agency (IEA), Paris. He was on leave from his post as a staff senior scientist at the Lawrence Berkeley Laboratory (LBL), CA, from which he retired in 2001.

Dr. Schipper is a member of the Global Business Network and a senior associate of Cambridge Energy Research Associates. He has been a fellow at the Industry and Energy Department of the World Bank, and a visiting researcher with Group Planning, Shell International Petroleum Company, London, in the mid 1980s. Dr. Schipper spent six months at the Swedish Heating Society in Stockholm (1982-3) and one year (1977-8) as a Fulbright scholar at the Beijer Institute, Stockholm. He is a member of the National Academy of Sciences' "Sustainable Transport" committee and served on the Swedish TRB Environment committee for four years. Dr. Schipper obtained his bachelor's degree in music from Berkeley in 1968 and his doctorate in astrophysics in 1985. He still leads a jazz quintet, and recorded "The Phunky Physicist" in Sweden in 1973.

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LUIZ GUTIERREZ

Mr. Gutierrez has long experience and expertise with BRT and transportation projects as well as public policy and planning. He has managed the preparation phase of the World Bank Urban Transportation Project for Lima and Callao, Peru (1996-98), which focused on the development of bus rapid transportation solutions and environmental and traffic safety programs. Subsequently, Luis worked for the World Bank (1999-2001) as a policy-making and project evaluation consultant, focusing on sustainable transportation, and poverty relief projects. From 2001 to 2002, he worked for the new democratic government of Peru as the Vice-Minister of Transportation and, later, as the Executive Director of one of the largest Latin American reconstruction programs aimed at rebuilding and developing Southern Peru after the 2000 earthquake.

In Montgomery County, Maryland, he led different initiatives, including urban development and traffic safety programs. Mr. Gutierrez has taught as a professor in Peru's major universities, and written a number of books, essays, and articles. He holds a MS in economics from Boston University, a mid-career diploma in planning from the OAS-UNDP program, and a BS in economic engineering from the National University of Engineering of Lima. Currently, he manages EMBARQ's Latin American activities.

ADRIANA DE ALMEIDA LOBO

Ms. Lobo has more than 13 years experience in urban and regional transport planning, with an emphasis in transport modeling. Her professional development includes the direction of projects in Brazil, Mexico, Panama, Colombia, Peru, Venezuela and Chile. She was Technical Director in consultant firms such as Cal y Mayor y Asociados, S.C., and Transconsult, S.C., for over 6 years. Since 2004, she has served as Director at Centro de Transporte Sustentable, an NGO whose goal is to improve urban transport in Mexico. Her main projects at CTS include Metrobus, Cycle path, Pedestrian safety and Retrofit for Mexico City; and Mobile System at Queretaro

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She holds a degree in civil engineering from Escola Politecnica at the University of Sao Paulo. She also holds a masters degree in Business Administration which she received from the Instituto Tecnologico Autonomo de Mexico.

TONI LINDAU, PH.D.

Dr. Lindau has a Civil Engineering degree from the Federal University of Rio Grande do Sul - UFRGS, Brazil. In 1983, he got his PhD in transportation engineering from the University of Southampton, England. Dr. Lindau joined the Engineering School of UFRGS in 1983 where he has been conducting teaching and research activities in transportation at the Laboratory for Transportation Systems (LASTRAN).

Since 2002 (and up to 2006), Dr. Lindau has been the president of the Brazilian Association for Research and Teaching in Transportation (ANPET). He works as ad-hoc consultant for several national research councils and is member of editorial boards. Dr Lindau is the current head of the Centro de Transportes Sustentáveis do Brasil, an NGO launched by EMBARQ that is currently helping the authorities of the municipality of Porto Alegre in designing a high performance BRT system.

SIBEL BULAY KOYLUOGLU

A Ford Visiting Fellow at the World Resources Institute (WRI), Sibel Bulay Koyluoglu is the Project Director of *EMBARQ*-Istanbul. Before joining WRI, Ms. Bulay Koyluoglu worked for Ford Motor Company where, in addition to working in Product Development, she was involved in sustainable development initiatives. Prior to joining Ford, she taught at the Middle East Technical University in Gaziantep, Turkey. Ms. Bulay Koyluoglu holds an MS in Mechanical Engineering and an MBA, both from the University of Michigan.

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RHYS THOM

Rhys' career background has been a combination of work in the international development field and in marketing, communications, and design. He comes to WRI and *EMBARQ* from his multimedia marketing firm, where he developed and implemented a variety of successful marketing strategies for clients in the private and non-profit sectors. Previous to that he was a project director with the Delta Info Initiative, a rural information technology and advocacy project in Nigeria's Niger Delta. He has also worked in Namibia on human rights and governance issues and in Honduras on community development, governance, and environmental projects. He is interested in innovative and sustainable approaches to the problems of urban growth and enjoys combining his ardent interest in New Media with his passion for New Mobility as Communications Coordinator for *EMBARQ*.

ALPER UNAL, PH.D.

Dr. Alper Unal is a Senior Research Scientist at the World Resources Institute (WRI) and project manager for Istanbul Clean Fuel/Clean Technologies project. Dr. Unal is also responsible in developing projects that aim to reduce adverse environmental impacts from the transportation sector.

Before joining WRI, Dr. Unal worked for MACTEC Inc., where he was responsible for conducting technical analysis for the state of New Jersey's State Implementation Plans (SIPs) for Ozone and Particulate Matter. Dr. Unal worked specifically on quantifying the impact of Electric Generating Units and finding control levels that would help the state of New Jersey attain federal standards. Dr. Unal also worked at Georgia Institute of Technology as a Research Scientist where he developed/applied scientific methods to quantify the impact of different emission sources on regional air quality. During his Ph.D, Dr. Unal worked on developing novel methods to estimate emissions from on-road vehicles. He was part of the group that started EPA's next generation vehicle emissions model.

Dr. Unal holds a Ph.D. in Civil and Environmental Engineering and Ph.D. minor in Statistics at the North Carolina State University. Dr. Unal completed his Post-Doctoral study in Environmental Engineering at Georgia Institute of Technology. He is the author of numerous conference and journal papers.

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WEI-SHIUEN NG

Wei-Shiuen Ng joined *EMBARQ*, the WRI Center for Sustainable Transport in 2004 and has since been involved with the management of *EMBARQ*'s various transport projects in Asia, including Shanghai, Xi'an, Hanoi, and Pune. Wei-Shiuen conducts transport data and policy analyses, focusing on the environmental and social consequences of motorization and mitigation measures, as well as the development of transport emissions measuring tools. She analyzes sustainable transport policy options that will achieve economic, environment and social stability, and is particularly interested in building transport scenarios to illustrate the impact of different motorization trends on energy consumption and greenhouse gas emissions, and the application of fiscal policies in transport demand management.

Prior to joining *EMBARQ*, Wei-Shiuen evaluated the north shore of Massachusetts for the Great Marsh Coalition, where she completed a market analysis of the region's economic activities, and carried out land pricing and contingent valuation studies. Wei-Shiuen holds a Masters in Environmental Science from Yale University School of Forestry and Environmental Studies, where she concentrated on energy and climate change economics and policy, and studied the economic impact of sea level rise. She received her Bachelor of Science in Environmental Economics and Environmental Management from the University of York in the United Kingdom.

MARIA CORDEIRO

Maria Cordeiro joined *EMBARQ*, the WRI Center for Sustainable Transport in 2004 and has since been involved in the management of the environment and global tools programs, and of various transport and environment projects in Latin America. Maria leads multicultural teams and conducts research on topics such as the calculation of greenhouse gas and criteria pollutant emissions from transport projects and cost-effectiveness analysis of emissions mitigation measures. Maria is particularly interested in the monitoring of the air quality, health and climate change impacts of transport and on the political, management and technical measures to mitigate these impacts.

Prior to joining *EMBARQ*, Maria worked for Climate Action Network Europe, ECOTEC Research and Consulting Ltd, and About Net, where she advised government, private sector and civil society clients and partners on climate, energy and environmental policy. Maria has research experience with the British Geologic Survey and with the Research Center Julish in Germany on the impact

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of soil contamination on the health of local communities, and on the development of bio-sensors for application in waste water treatment plants.

Maria holds a Masters degree in environmental management from the Nottingham Trent University and a Bachelors degree in Energy and Environment Technology from the University of Glamorgan, in the United Kingdom.

ADRIANA LACERDA

A Brazilian native, Adriana has a law degree from the University of Passo Fundo, Rio Grande do Sul, in Brazil. Prior to joining the World Resources Institute, Adriana worked for Brazilian courts for eight years. In her latest position as a Deputy Clerk at the Getulio Vargas Courthouse, she handled all the duties of the Senior Clerk in his absence, including the organization and supervision of the 2000 elections in Brazil for Getulio Vargas Comarca. She took on many administrative duties of the Courthouse including human resources, accounting, office management, and staff coordination. In addition, Adriana provided personal assistance to the judge, researching law, overseeing agendas, scheduling hearings, working on creation of judicial warrants, archival and publishing of judicial decisions, among other duties. At the Courthouse of Erechim, she was responsible for the agenda of the criminal executions and public hearings for probations, and worked as a general judge's assistant. Adriana previously interned at Banco do Brasil, and started her career as a legal secretary while still in high school.

Adriana joined the EMBARQ/WRI team in November 2005 and is the team's management associate, supporting EMBARQ's director in project coordination, overviewing the group's contracts and sub-grants, taking on day-to-day administrative activities, and keeping the wheels turning.