

## PATRICK DUAN



### **Vice President BYD Motors INC.**

Patrick joined BYD in 2004 and served as a lead design engineer for two years at BYD's Motor Development Division where he was responsible for engine modeling and performance analysis. Patrick relocated to BYD America Corporation's headquarters in Chicago in 2006 taking charge of BYD's market sales of cell phone batteries and key accounts. In 2012 Mr. Duan was transferred to Los Angeles and has since been promoted to the position of BYD's Vice President of Operations. He has developed extensive engineering and management experience in mass transit products; having oversaw BYD's coach and bus product lines, and now BYD's SkyRail transportation system. Patrick received his degree in Mechanical Engineering from Beijing Institute of Technology.

## CARLA PETERMAN



### **Commissioner California Public Utilities Commission**

Carla Peterman was appointed by Governor Jerry Brown in January 2011. She filled the Public Member position on the five-member Commission where four of the five members by law are required to have professional training in specific areas - engineering or physical science, environmental protection, economics, and law. Commissioner Peterman is the lead commissioner on renewable energy and transportation.

Ms. Peterman has conducted research at the University of California Energy Institute at Haas since 2006 and the Lawrence Berkeley National Laboratory from 2008 to 2010. She was an environmental business analyst with community development non-profit Isles from 2004 to 2005 and was an associate focused on energy financing in the investment banking division of Lehman Brothers from 2002 to 2004. Ms. Peterman also served on the board of directors for The Utility Reform Network from 2008-2011, most recently as Board Treasurer.

Ms. Peterman will complete her doctoral studies this year in Energy and Resources at the University of California Berkeley. Her research focuses on solar photovoltaic markets, policy, and financial incentives. She has also worked and written on a wide range of California energy and policy issues including, cap-and-trade, efficacy of local environmental regulations, climate change and communities of color, clean energy subsidies, and energy security. Peterman holds a B.A. in history from Howard University and an M.S. in environmental change and management and an M.B.A. from Oxford University, where she was a Rhodes Scholar.

## ALBERTO ESCOBAR



### **Head of Mobility and Public Policy of the Automobile Club of Chile**

Alberto Escobar holds a BA in Anthropology from Universidad de Chile, a Master of Arts in Strategic Communication from Georgetown University, and a master's degree in Road Safety from the FIA Foundation in London. Currently, he serves as the Manager of Mobility and Public Policy of Automobile Club in Chile. He has worked as an international consultant and advisor to public and private institutions for more than 25 years. He has held executive positions in internationally renowned automotive companies such as Volkswagen and MACO in Chile as well as in variety of countries abroad including the United States, Vietnam, Russia, and Indonesia.

He has also held appointments as a member of the World Council for Mobility and Public Policy and of the Presidential Advisory Committee of Chile for Urban Mobility. Currently, Escobar is Director and Vice President of NCAP, an organization that advocates for vehicle safety in the Latin American and Caribbean Area as well as member of the advisory board of the International Transport Forum for Latin America.

## LUCAS DAVIS



### **Professor, Institute of Energy, Haas Business School, UC Berkeley**

Lucas Davis is an Associate Professor at the Haas School of Business and Faculty Director of the Energy Institute at Haas. His research focuses on energy and environmental markets, and in particular, on electricity and natural gas regulation, pricing in competitive and non-competitive markets, and the economic and business impacts of environmental policy. He serves as co-editor of the *American Economic Journal: Economic Policy* and is a Research Associate at the *National Bureau of Economic Research*. Prior to moving to UC Berkeley in 2009, he was an Assistant Professor of Economics at the University of Michigan.

## ANDREW MCALLISTER



### **Commissioner of the California Energy Commission**

Andrew McAllister was appointed to the California Energy Commission by Governor Edmund G. Brown Jr. in May 2012, and re-appointed in January 2017. Beginning in the early 1990s, Commissioner McAllister has been working on clean energy deployment and policy for his entire 25-year career. He has worked across the world to develop renewable energy generation, energy efficiency investments, and energy management systems, with counterparts ranging from tiny remote communities to the largest of utilities. Commissioner McAllister administered two of California's signature renewable energy programs (California Solar Initiative and Self-Generation Incentive Program), developed and operated energy efficiency programs for utilities, and performed a broad range of policy-related research for California and the U.S. Federal government. He currently serves on the board of directors of the National Association of State Energy Officials (NASEO) and the Alliance to Save Energy. Commissioner McAllister's deep grounding in technology, policy and marketplace provides him with uncommon insight on the accelerating changes taking place in the electric power sector.

Before joining the Energy Commission, Commissioner McAllister was managing director at the California Center for Sustainable Energy, where he worked for six years. Previously, he worked with National Rural Electric Cooperative Association (NRECA) International, Ltd. in the electric sectors of countries in Central and South America, Southeast Asia and Africa on a variety of renewable generation, load management, utility planning and remote power projects. He was a project manager at an energy consulting firm and worked as an energy efficiency analyst at Lawrence Berkeley National Laboratory. Commissioner McAllister holds M.S. and PhD degrees from the Energy and Resources Group at the University of California, Berkeley. In addition, Commissioner McAllister is a Returned Peace Corps Volunteer.



## MARY MCDONALD



### **Director of Government Affairs, CAISO**

Mary McDonald has a wide breadth of expertise in government affairs in the public and private sector at both the state and federal level. As the Director of State Affairs for the California Independent System Operator (ISO), she oversees the ISO's relations with the State Legislature and international delegations. Additionally, she represents the ISO at various state, business, environmental and international forums. The California ISO is a nonprofit public benefit corporation that operates the grid for 80% of California and a small part of Nevada.

The ISO also operates a balancing market in California and seven additional western states. Prior to joining the company in 2001, Ms. McDonald was the Vice President of Corporate Communications for the California Power Exchange. She also served in three California Governors' administrations. She served as the Deputy Legislative Secretary to Governor Pete Wilson, directing the advocacy efforts of multiple state agencies and departments in the areas of natural resources, energy, environment and agriculture. In both Governor Wilson and Governor Deukmejian's administrations, she served as Washington D.C. representative for energy, water and the environment. She also served in Governor Brown's first administration as the Assistant Director of Government Affairs for the California Department of Conservation. Ms. McDonald holds a Bachelor of Science degree in Mass Communication and a minor in Political Science from the University of California at Davis.

## MARCELO TOKMAN



### **CEO, Chilean National Oil Company and Former Minister of Energy of Chile**

He is an Economist from Pontificia Universidad Católica de Chile, and Master and Ph.D. University of California, Berkeley. He was an advisor in macroeconomics for the Ministry of Finance, researcher of Cieplan, Head of Studies of the Budget Department and Chief of Staff of the Ministry of Finance. He was later appointed Minister President of the National Energy Commission and was the first Minister of Energy when this office was created in February 2010. Later, he was in charge of the Master Plan of Sustainable Reconstruction of Constitución and was Vice President, responsible for South America (excluding Brazil) and part of Central America, of Vestas, the world's largest wind turbine manufacturer.

He taught Economics at the Economics Institute and the program of Master of Economics at Pontificia Universidad Católica de Chile; Public Finance in the Master of Public Management at Universidad Adolfo Ibáñez, and Health Economics in the MBA program at Universidad Andrés Bello. Similarly, he has published several academic articles, among which stand out some for the Center of Public Studies, Expansiva Foundation, Revista Economía Chilena of the Central Bank of Chile and the OECD Journal on Budgeting. Before joining ENAP, he worked as a consultant and was a member of the board of directors of several companies and NGOs.

## ERNESTO HUBER



### **Operation Manager Chilean ISO**

Mr. Huber is Electrical Engineer from Universidad de Chile and holds a Master degree in Business Administration from Universidad Adolfo Ibáñez. He has over 25 years of experience in the electricity sector in Chile, working in generation and transmission companies. He is currently Professor of Electrical Engineering at the University of Chile and also in the Master of Energy Economics from Universidad Santa María. In 1998, he was secretary of the Board of Directors CDEC-SIC (Chilean ISO). In 1999 he started to work in the CDEC-SIC - formed that year as an independent agency of the companies - in the position of Head of the Planning Operation Department. From 2005 - 2016, he was a Deputy Director of Operations. He is currently Operation Manager of the National Electric Coordinator (New Chilean ISO).

# CLEAN ENERGY

## CONFERENCE MODERATORS

### JUAN PABLO CARVALLO



#### **Sr. Scientific Engineering Associate in the Electricity Markets and Policy Group at Lawrence Berkeley National Laboratory.**

Mr. Carvalho is a Sr. Scientific Engineering Associate in the Electricity Markets and Policy Group at Lawrence Berkeley National Laboratory. His research areas at the lab focus on policy, economic, and financial aspects of the U.S. ESCO industry. His research program also includes regional resource planning, regulatory design for planning and investment in electricity markets, and environmental/alternative energy policy. Mr. Carvalho holds an M.S. in Energy and Resources from the University of California, Berkeley, as well as P.E. and B.S. degrees in Electronics Engineering from Universidad Técnica Federico Santa María, Chile. He is currently pursuing his Ph.D. in Energy and Resources under the supervision of Dr. Daniel M. Kammen.

### CRISTIÁN SJÖGREN



#### **Co-founder of Solarwatt**

Cristián Sjögren holds a B.S. in Industrial Civil Engineering from Pontificia Universidad Católica de Chile and an MBA from Haas School of Business at UC Berkeley. He has more than 10 years of experience in the energy industry, including involvement in the development, construction, financing, and operation of energy infrastructure projects. He served as the Director for the Latin American region for First Solar, where he led operations in Chile, Argentina, Colombia, Peru, and Bolivia. Responsible for the office in Chile and the establishment and development of Luz del Norte, one of the largest solar projects in the region with a total investment of + US \$ 350 million. He participated in the negotiation of multiple power supply contracts with customers from various industries and distribution companies, winning + 200GWh in bidding to supply regulated customers. A pioneer in the solar industry in Chile, Sjögren is the founder of Solar Chile, a start-up focused on the development of solar projects with a pipeline of +1,500 MW, which was subsequently acquired by First Solar.

### JUAN SPINIAK



#### **VP of Product at Ample**

Juan is currently the VP of Product Management for Ample, an SF-based startup, a San Francisco based startup building the next-generation energy delivery solution for electric vehicles. Prior to Ample, Juan spent seven years at Google as Product Manager for multiple projects, including launching Google Fiber and leading new products for the emerging markets team. Prior to Google Juan worked for the telecommunications industry in Chile.

Juan holds an MSc in Engineering and Management for the Massachusetts Institute of Technology, and an MSc and BSc in Electrical Engineering from the Pontificia Universidad Católica de Chile.



## **RAFAEL FRIEDMANN**



### **Clean Energy Research and Policy Consultant**

Rafael has over 40 years experience in the renewable and energy efficiency arenas in the corporate and academic spheres. Early work on solar thermal has been followed by 30 years of research and promotion of policies and programs to foster societal adoption of energy efficiency. Currently interested in the development of policies and programs to foster and optimize the integration of distributed energy resources, renewables, and energy efficiency.

## **BERNARDO BUSEL**



### **Partner, Quintanilla & Busel Niedmann**

Master of Laws in Energy (LL.M.) (c) from the Universities of Copenhagen, Oslo, Groningen and Aberdeen. Bachelor of Laws (LL.B.), Universidad Adolfo Ibáñez Law School. Partner at Quintanilla & Busel Niedmann. He is a professor of electricity law and regulation at Universidad Adolfo Ibáñez Law School. He has advised and led teams in complex matters related to electricity law, commercial and regulatory litigation. He has significant experience advising Chilean and foreign clients in dispute resolution and project development, including relevant cross-border transactions. His practice also includes corporate governance regulation and antitrust. He has been selected as a leading practitioner in electricity law according to specialized publications such as Legal 500 and Leading Lawyers. Since 2016, Bernardo serves as a member of the Ethics Council of the American Chilean Chamber of Commerce.

# CLEAN ENERGY

## CONFERENCE SPEAKERS

### SUSANNE STIRLING



#### **Vice President of International Affairs, California Chamber of Commerce**

Mrs. Stirling was appointed by the Governor to the California International Trade and Investment Advisory Council, and serves on the Northern California District Export Council (appointed by the US Secretary of Commerce), as well as, the National Export Council Steering Committee. Mrs. Stirling is a member of the US Chamber of Commerce International Committee and the Chile-California Council, in addition to serving as an alternate Board member to the California International Relations Foundation. Prior to her affiliation with the California Chamber of Commerce, Mrs. Stirling was employed in Copenhagen by Burmeister and Wain A/S, a Danish ship-building company, in their public relations and finance/legal departments. Mrs. Stirling received her Master of Arts in International Relations from the University of Southern California in 1976. Her undergraduate work was completed at the University of Copenhagen and the University of the Pacific in Stockton, where she received her Bachelor of Arts in International Relations in 1975, and currently serves as a Regent.

### TU JARVIS



#### **Chile California Council Chair**

Chairman of the Chile-California Council; Professor of Agricultural and Resource Economics and Director, Richard Blum Center for Developing Economies, UC Davis. Lovell S. "Tu" Jarvis received a B.A in economics with the highest distinction from the University of Kansas in 1964, and a Ph.D. in economics from MIT in 1969. He was a professor of Economics at UC Berkeley from 1969 to 1977, an international consultant from 1977 to 1983, and joined the Department of Agricultural and Resource Economics at UC Davis in 1984. He was Divisional Associate Dean, College of Agricultural and Environmental Sciences, 1999-2009. Jarvis conducts research on agricultural policy in developing countries and has conducted research on Chilean agriculture since 1972. He has consulted extensively for the U.S. government, international agencies such as the World Bank, foreign governments and private firms.

### CAROL Z. PEREZ



#### **U.S Ambassador to Chile**

Carol Z. Perez, a career member of the Foreign Service, class of Minister-Counselor, was confirmed by the U.S. Senate July 14, 2016 as U.S. Ambassador to Chile. She served as Principal Deputy Assistant Secretary in the Bureau of Human Resources at the Department of State, from 2015-2016. Ambassador Perez also served in the Bureau of International Narcotics and Law Enforcement Affairs as Principal Deputy Assistant Secretary from 2013 to 2015 and as Deputy Assistant Secretary from 2011 to 2013. Prior assignments include U.S. Consul General in Milan, Italy, from 2009 to 2011 and in Barcelona, Spain from 2001 to 2003. Since joining the Foreign Service in 1987, Ms. Perez has held positions in the Office of the Under Secretary for Management, the Executive Secretariat, Bureau of Near Eastern Affairs, and at posts in Italy and Spain. She speaks Spanish and Italian. Ms. Perez received a B.A. from Hiram College in Political Science and an M.A. in Health Care Administration from The George Washington University. She is married to Al Perez. They have three children.



## KEN ALEX



### **Director of the Governor's office of planning and research**

Appointed Office of Planning and Research director by Governor Jerry Brown in 2011, Ken Alex is also Brown's senior policy advisor. Alex has a bachelor of arts in political theory from the University of California, Santa Cruz and is a 1983 Harvard Law School graduate. After law school, Alex was a staff attorney/court law clerk for the Ninth Circuit U.S. Court of Appeals. He joined the California attorney general's office in 1985, where he negotiated settlements that included agreements with San Bernardino County and ConocoPhillips—the first required greenhouse gas emissions reductions in the country. He was supervising deputy for the attorney general's environmental division in 1997 when Pacific Gas & Electric Co. agreed to pay more than \$14 million for submitting inaccurate reports on damage its Diablo Canyon nuclear power plant caused to sea life. At the time, it was the largest settlement of its kind. Alex led the attorney general's energy task force from 2000-06 investigating price and supply issues relating to the state's energy crisis. During this time, he oversaw a recoup of about \$5 billion through settlement negotiations with power producers. Alex headed the environment section as assistant attorney general in the California Department of Justice. He was also co-head of the office's global warming unit.

## KEN ZAGZEBSKI



### **President, AES US**

Ken Zagzebski is President of US Strategic Business Unit and oversees our 16 generation businesses and two utilities, Indianapolis Power & Light Company and Dayton Power, in the United States. This SBU has more than 12GW of generating capacity and over one million distribution and retail customers in Ohio and Indiana. Under Ken's leadership, the company was awarded 20-year contracts by Southern California Edison (SCE) in 2014 to provide 1,284 MW of combined cycle gas-fired generation and 100 MW of interconnected battery-based energy storage resource and also obtained regulatory approvals for over \$1 billion in generation projects in Indiana. Ken is an experienced utility executive with operational and financial leadership experience, both domestically and internationally. Prior to this current role, Ken was President and CEO of IPL. He joined AES in 2007 as Senior Vice President of Customer Operations of IPL and was responsible for the Power Delivery, Customer Services and Enterprise Information Systems business groups. Prior to joining AES, he served as Vice President and Chief Operating Officer for Field Operations at Xcel Energy and Executive Director of the company's Asia-Pacific region with responsibility for the company's regional investments primarily located in Australia. Ken has an MBA from the Carlson School of Management at the University of Minnesota and a Bachelor's degree from the University of Wisconsin. He is passionate about the developing character in our youth with over 30 years of coaching experience. Currently, Ken is the Chair of the Marion University Academy for Teaching and Learning Board of Visitors. He also serves on the Boards of the YMCA of Greater Indianapolis and the Central Indiana Corporate Partnership.

## JOHN ZAHURANCIK



### **Chief Operating Officer, Fluence**

John is the Chief Operating Officer for Fluence, a global energy storage supplier, founded by Siemens and the AES Corporation. Fluence was born from the combination of AES Energy Storage, a company John helped to co-found in 2007, and the Siemens energy storage groups. Jointly, the company is providing energy storage systems in 16 countries globally with more than 50 utility scale installations totaling more than 500MW. With more than a decade of work on grid-connected battery systems, John has been involved in the development, installation, and operation of many of the leading energy storage systems around the world. His team has pioneered new business cases for energy storage in cooperation with utilities, power developers, and commercial customers, providing solutions that reduce cost, add resilience, and lower emissions. John is a regular power industry and innovation speaker, author, and media source. Prior to energy storage, John worked at AES in retail power and fiber telecommunications, and as a consultant for the telecommunications industry. John holds a master's degree in public policy from the University of Michigan and a bachelor's in economics and social science from Florida State University.

## JUAN PEDRO ALONSO



### **Innovation Project Manager, ENEL**

Juan Pedro is an Electrical Engineer from ULPGC, Spain with a Masters in Electrical Technology from Pontificia Universidad de Comillas (ICAÍ), Spain. After starting his work in 2009 at the Utility Company ENDESA, in 2011, he moved to Chile for a new mission at CHILECTRA (*today ENEL DISTRIBUTION Chile, the largest electrical power distribution company in the country, subsidiary of ENEL Group*). After working on different projects related to smart grids and remote-control systems, such as Smartcity Santiago in 2016, Juan Pedro joined ENEL GREEN POWER (EGP) as the Innovation Project Manager. He is focused on the deployment, the implementation and the performance analysis of innovation renewable energy projects in the South American Region. Currently he is working on pilot projects related mainly to energy storage systems, solar, wind, and marine energy, among others. Additionally, Juan Pedro is not only a member of the Board of Directors at MERIC (Marine Energy Research and Innovation Center) but he is also involved as EGP's implementing partner mission. MERIC is an International Center of Excellence aimed at understanding the ecosystem dynamics related to the extraction of marine renewable energy, as well as how to adapt the current technologies to the extreme conditions of Chile.



## TOM GEORGIS



### **Senior Vice President, Development SolarReserve**

Tom Georgis is SolarReserve's Senior Vice President of Development, responsible for driving SolarReserve's continued growth through initiating and developing projects and business opportunities across the US, Latin America, Asia and Australia.

Over the past 10 years, his efforts have resulted in the development of a portfolio of 1,100 MW of 24-hour solar thermal projects in Chile, a 3,700 MW portfolio of both solar thermal and PV in the United States, 300 MW of solar projects in Central America, and 800 MW of solar thermal and PV solar projects in Australia. Georgis led the development and financing of SolarReserve's flagship Crescent Dunes 110 MW project in Nevada, the world's first utility scale solar thermal project with integrated molten salt energy storage. He was instrumental in signing a long-term Generation Project Agreement with the South Australian Government to build a 150 MW solar thermal power station with 8 hours of energy storage in South Australia. Georgis is also in the process of advancing strategic partnerships that will facilitate the deployment of the company's advanced technology in China. Georgis has more than 28 years of development and operational experience in the energy, technology, and government service sectors. He has held several senior management positions and his diverse expertise includes structuring transactions for energy and infrastructure projects, leading all aspects of energy project acquisition and managing greenfield project development. Georgis earned his Master of Business Administration from the Anderson School at the University of California Los Angeles. Georgis also holds a Bachelor of Arts degree in International Studies from Northwestern University. Georgis served nine years as a Naval Special Warfare Officer in the United States Navy. He also serves on the board of the Price Center for Entrepreneurial Studies at the UCLA Anderson School of Management.

## VIC SHAO



### **Founder & Chairman, Engie Storage**

Vic Shao is the founder and chairman of ENGIE Storage (formerly known as Green Charge Networks). Vic has worked closely with the U.S. Department of Energy, utilities, and Fortune 500 companies to develop the industry's first intelligent energy storage solution specifically engineered to help businesses save money on their electric bills. Prior to ENGIE Storage, Vic held management and engineering positions at several enterprise software companies including Oracle. He has more than 12 published and granted patents in cloud computing and power efficiency. Vic holds an MBA from UC Berkeley Haas School of Business and an engineering degree from the University of Virginia.

## CECILIA AGUILLON



### **President, Aguillon Enterprises LLC**

Cecilia Aguillon is the President of Aguillon Enterprises LLC, a consulting firm advising government agencies, international investors and manufacturers on developing distributed solar policies and projects in Latin America. She worked at Kyocera Solar, Inc. in California on Business Development and Government Relations for 18 years. She worked with policy makers on designing solar energy programs and renewable portfolio standards for implementation across the United States, Canada, and Mexico. She developed these initiatives in cooperation with several trade associations throughout the United States. She served on the board of the California Solar Energy Industries Association (CalSEIA) and participated in the design and implementation of the California Solar Initiative. She is currently on the board of the Climate Action Campaign working to implement sustainable energy programs for San Diego, California.

## LILLIAN MIRVISS



### **Project Manager, OhmConnect**

Lillian Mirviss is Project Manager at OhmConnect, where she manages OhmConnect's grants and strategically identifies research and partnership opportunities to catalyze and grow implementation of DR. She has experience managing energy research and development contracts for the California Energy Commission, and she previously worked for Gap Inc. on corporate renewable energy procurement. Mirviss has a Master of Environmental Science and Management from the Bren School at UC Santa Barbara and a BA in Geology-Biology from Brown University.

## ALEX PORTILLA



### **Principal Product Manager, DER Management System, Pacific Gas and Electric**

Alex Portilla is currently running PG&E's DERMS Demonstration Project. Alex joined PG&E's Emerging Grid Technologies group in 2013. He is focused on evaluating emerging smart grid technologies. Alex has an MBA from University of California Berkeley, Haas School of Business and a BS from the New York University's Stern School of Business.

## ENRIQUE BARRIGA



### **Consul General of Chile in San Francisco**

Public Administrator with a Master's Degree in International Humanitarian Law and Penal Justice from the University Obertat de Catalunya of Barcelona, as well as a Technical Specialist Degree on the European Union Organization from the same institution. Among his previous postings are Sweden (2010-2015), Germany (2003-2007), Denmark (1996-2001), Malaysia (1992-1993), Australia (1989-1991), Kenya (1983-1987) and Bolivia (1982-83). At the Ministry of Foreign Affairs he's worked at Consular Affairs (1980-81), at the Diplomatic Academy (1987-1988), the Asia/Pacific Directorate (1994-1995), the European Affairs Directorate (2001-2002), the South American Directorate (2008-2010) and finally the Middle East and African Directorate (2015-2016). Furthermore, he has represented Chile as a delegate at various international conferences. He speaks fluent English and French, and conversational German. He has been decorated by the governments of Denmark and Poland, as well as by the Ministry of Foreign Affairs with the Service Medal for time served at 20, 30, and 35 year career.

## DAN SPERLING



### **Blue Planet Professor of Civil Engineering and Environmental Science and Policy, and founding Director, Institute of Transportation Studies, UC Davis; and CA AIR Resources board**

Dr. Sperling is recognized as a leading international expert on transportation technology assessment, energy and environmental aspects of transportation, and transportation policy. He has testified ten times to the US Congress and state legislatures, and provided keynote presentations and invited talks in recent years at international conferences in Asia, Europe, and North America. In the past 25 years, he has authored or co-authored over 200 technical papers and 11 books, including *Two Billion Cars* (Oxford University Press, 2009). He has made 500 professional presentations in his career, including many keynote talks in the past few years. Prior to obtaining his Ph.D. in Transportation Engineering from the University of California, Berkeley (with minors in Economics and Energy & Resources), Professor Sperling worked two years as an environmental planner for the US Environmental Protection Agency and two years as an urban planner in the Peace Corps in Honduras. He has an undergraduate degree in engineering and urban planning from Cornell University. During 1999-2000, he was on leave as a visiting scholar at OECD (European Conference of Ministers of Transport).