

# Three Keys to Sustainable Urban Communities: Water, Power and Transportation

The second annual climate change forum sponsored by Hitachi and featuring panels organized by the American Association for the Advancement of Science and The Brookings Institution

Thursday, May 27, 2010 • Washington, DC

## Forum Program Participants

---

### Keynote Presentation

#### The Honorable Peter S. Silva

*Assistant Administrator for Water,  
U.S. Environmental Protection Agency*

Peter Silva was appointed by President Obama to serve as Assistant Administrator for Water at the U.S. Environmental Protection Agency. He started in this position on July 27, 2009, after having been confirmed by the U.S. Senate.

Mr. Silva has over 32 years of public sector experience in the water and wastewater fields, with extensive knowledge of U.S.-Mexico border issues. Prior to joining EPA, he was a Senior Policy Advisor on lower Colorado River issues for the Metropolitan Water District of Southern California. Before that, he served for six years as the Vice-Chair of the California Water Resources Control Board, having been appointed by both Governors Davis and Schwarzenegger. Preceding this, Mr. Silva was the Deputy General Manager of the Border Environment Cooperation Commission housed in Juarez, Mexico. His other experience includes ten years with the City of San Diego (both Clean Water Program and Water Utilities Department), four years in charge of the San Diego office of the International Boundary and Water Commission and five years for the California Regional Water Quality Control Boards in Los Angeles and San Diego.

Mr. Silva has a B.S. in Civil Engineering from California State Polytechnic University, Pomona and is a Registered Civil Engineer in California.

---

### Welcome

Master of Ceremonies

#### Dr. Vaughan Turekian

*Chief International Officer  
American Association for the Advancement of Science*

Vaughan Turekian is the Chief International Officer for AAAS. In this role, he leads, develops and coordinates the broad range of AAAS's international activities. He is also the Director of AAAS's Center for Science Diplomacy, which aims to bring together stakeholders from the scientific and foreign policy communities to identify ways to better apply science cooperation to building relationships between and among nations.

Dr. Turekian served as Special Assistant to the Under Secretary of State for Global Affairs, where he was a lead advisor on international science, technology, environment and health issues, including clean energy, sustainable development, climate change, scientific outreach and avian influenza. He is the two-time recipient of the Department's Superior Honor Award for his work on climate change and avian influenza.

Prior to his time at the State Department, Dr. Turekian worked at the National Academy of Sciences (NAS). In 2001, he was the Study Director for the White House-requested NAS report on climate

change science. He is a member of the Council on Foreign Relations and a Nonresident Fellow in Foreign Policy at The Brookings Institution and has published numerous articles on the linkages between science and international policy. Dr. Turekian received his master's and doctorate in atmospheric geochemistry from the University of Virginia. He is a graduate of Yale University with degrees in geology and geophysics and international studies.

---

### Opening Remarks

#### Dr. Alan Leshner

*Chief Executive Officer, AAAS  
and Executive Publisher, Science*

Dr. Leshner has been Chief Executive Officer of the American Association for the Advancement of Science and Executive Publisher of the journal *Science* since December 2001. AAAS was founded in 1848 and is the world's largest, multi-disciplinary scientific and engineering society. Before coming to AAAS, Dr. Leshner was Director of the National Institute on Drug Abuse (NIDA). Dr. Leshner also was the Deputy Director and Acting Director of the National Institute of Mental Health. At the National Science Foundation (NSF), he held a variety of senior positions focusing on basic research in the biological, behavioral and social sciences, science policy and science education.

Dr. Leshner was a Professor of Psychology at Bucknell University and has also held long-term appointments at the Postgraduate Medical School in Budapest, Hungary; at the Wisconsin Regional Primate Research Center; and as a Fulbright Scholar at the Weizmann Institute of Science in Israel. The U.S. President appointed Dr. Leshner to the National Science Board in 2004, and he is a member of the Advisory Committee to the Director of NIH.

#### Strobe Talbott

*President  
The Brookings Institution*

Strobe Talbott assumed the presidency of The Brookings Institution in July 2002 after a career in journalism, government and academe. His immediate previous post was founding director of the Yale Center for the Study of Globalization. He served in the State Department from 1993 to 2001 after 21 years with *Time* magazine. His 11th book, *The Great Experiment: The Story of Ancient Empires, Modern States, and the Quest for a Global Nation*, which was published in January 2008, combines historical and political analysis with personal reflection on efforts to forge a peaceful community of nations.

Mr. Talbott has been a fellow of the Yale Corporation; a trustee of the Hotchkiss School; and a director of the Council on Foreign Relations, the North American Executive Committee of the Trilateral Commission and the American Association of Rhodes Scholars. He is a member of the Aspen Strategy Group.

**Tadahiko Ishigaki**

*Chief Executive for the Americas  
Hitachi, Ltd.*

Tadahiko Ishigaki is Senior Vice President and Executive Officer, Chief Executive for the Americas, Hitachi, Ltd. In addition, he serves as Chairman, Hitachi America, Ltd.

Mr. Ishigaki has a long and distinguished career with Hitachi, joining Hitachi, Ltd. in 1968. He served in both the New York and San Francisco offices of Hitachi America, Ltd. in 1977 and 1980 respectively before moving to the Hydroelectric Power & Substation Equipment Dept., International Sales Division I in 1982. Named Department Manager of the Industrial Machinery Department five years later, he also served as Department Manager, Marketing Department, of the Overseas Operations Promotion Office before being named Deputy Managing Director, Hitachi (Europe), Ltd. in 1993. Mr. Ishigaki continued his career in Europe with increasingly senior management positions at Hitachi Home Electronics (Europe), Ltd. In 1999, he was named General Manager, Digital Media Systems Sales Operations Division at Hitachi, Ltd. and two years later Senior Vice President, Nippon Columbia Co., Ltd. He has also served as the Managing Officer & General Manager, Corporate Marketing and the President & Director of Hitachi Home & Life Solutions, Inc. In April 2006, Mr. Ishigaki was named Representative Executive Officer, Senior Vice President and Executive Officer of Hitachi, Ltd.

---

**Panel Discussion One: Electricity/Energy**

Moderator

**Dr. Charles Ebinger**

*Senior Fellow and Director, Energy Security Initiative  
The Brookings Institution*

Prior to joining Brookings, Charles Ebinger was a Senior Energy Advisor at the International Resources Group and an Adjunct Professor at Georgetown University's School of Foreign Service. Currently, he is an Adjunct Professor at Johns Hopkins University's Nitze School of Advanced International Studies and serves on the Board of Directors of the Washington Chapter of the International Association of Energy Economists. Dr. Ebinger has 30 years of experience addressing the security, political, economic, environmental and foreign policy interrelationships surrounding domestic and international energy issues. In 1975, he helped to establish the International Energy Agency and its oil-sharing mechanism. From 1976 to 1979, Dr. Ebinger served as Vice President of Conant and Associates, an international oil, gas and electricity political risk consulting company. In 1979, he became the founding Director of CSIS's Energy and Strategic Resources Program and served as Director until 1987. He was a Senior Consultant at Putnam Hayes & Bartlett and served as Executive Vice President at the International Resources Group. In 1999, he joined Stone & Webster Management Consultants as the Director of International Energy Practice. From 2000-2004, he held several positions at Bechtel Consulting including Vice President and Director of International Utility Services, Senior Vice President for Middle East, Central Asia and Africa and Senior Vice President for Global Privatization/Restructuring/Regulation.

**Michael Miller**

*Director, Environment and Renewables  
Electric Power Research Institute*

Michael Miller is Director of the Environment Sector. He is responsible for leading EPRI's environmental science research programs on air quality, climate change, water quality and resources, land and groundwater management, electric and magnetic fields management, and occupational safety and health.

His previous positions at EPRI include Director of the Environmental Control Technologies group, Program Manager for waste and water, and technical support for the Vice President of Generation.

Prior to joining EPRI in 1980, Mr. Miller worked for Pacific Gas & Electric Company, URS Company, and Northern States Power Company. His responsibilities for these organizations included managing and conducting air quality assessment projects, conducting oil spill impact studies, and supporting the generation, transmission and R&D planning functions for a large electric power company. The focus of his professional career has been on environmental science, technology and policy issues.

Mr. Miller received a BS degree in zoology and an MS degree in human physiology and environmental studies from the University of Wisconsin-Madison. He received an MPH degree from the University of Minnesota.

Mr. Miller has been a long-time member of the Air & Waste Management Association, serving on its Board of Directors from 1997-2000 and as Vice President of the Board from 1999-2000. He is also a Qualified Environmental Professional.

**William Parks**

*Senior Technical Advisor  
Office of Electricity Delivery and Energy Reliability  
U.S. Department of Energy*

Mr. Parks is a senior career executive with the United States Department of Energy with over thirty years experience in the energy field, including eleven years in corporate research and development, three years at a new business venture, and twenty years in the Department of Energy.

From 2006 to 2010, Mr. Parks was assigned as Chief Engineer and Special Assistant, Strategic Industries Division, DBEDT, Hawaii, serving as a senior energy advisor to the State, while being the principle Federal lead on the Hawaii Clean Energy Initiative.

From 2003 to 2006, he served as Deputy Assistant Secretary for Research and Development at the Office of Electricity Delivery and Energy Reliability in the U.S. Department of Energy. Prior to that, he was Associate Deputy Assistant Secretary for Power Technologies in charge of DOE renewable development programs. In addition, Mr. Parks was principle DOE lead in several national level public-private technology roadmaps including electricity and hydrogen, and Career lead in forming the Office of Electricity in 2003.

Mr. Parks is the 2006 recipient of the Lifetime Achievement Award for the Development of Distributed Energy Resources by US Industry.

**Naofumi Sakamoto**

*Chief Researcher  
Hitachi Research Institute*

Naofumi Sakamoto is Chief Researcher of the Hitachi Research Institute, a think tank of Hitachi Group. The Group has studied a broad range of global challenges from long-term and short-term perspectives and has provided tangible recommendations and solutions to both the public and business community. He currently leads the research areas of energy and environment at the Institute, collaborating with such foreign governmental organizations as the Development Research Center of the State Council (DRC) in China and the Ministry of the Environment and Water Resources in Singapore. He contributed to preparing the policy recommendation, released in June 2009, by the 21st Century Public Policy Institute, a think tank of Keidanren (Japan Business Federation), on the supporting mechanism for developing

countries in the UN climate change framework negotiations. His recent research work includes a long-term global energy scenario for 2030, specifically incorporating the impact of the climate change issue and quantifying the energy mix and CO2 emissions for possible scenarios with different levels of technological progress and policy enforcement. Prior to his current position, Mr. Sakamoto assumed various positions in Hitachi, Ltd., and engaged in the development of strategies for global businesses of the Hitachi Group, and the execution of M&A deals in business areas including power, rail, medical and information systems.

---

## Panel Discussion Two: Transportation

Moderator

### **The Honorable Dave McCurdy**

*President & CEO*

*Alliance of Automobile Manufacturers*

An acknowledged expert in public policy and a passionate spokesman for American innovation, Dave McCurdy is consistently listed as one of the most influential association executives and policy advocates in publications such as *Washingtonian* and *The Hill*.

Mr. McCurdy joined the Alliance of Automobile Manufacturers as President and CEO in February 2007. The Alliance is a trade association of eleven car and light truck manufacturers including BMW Group, Chrysler Group LLC, Ford Motor Company, General Motors, Jaguar Land Rover, Mazda, Mercedes-Benz USA, Mitsubishi Motors, Porsche, Toyota and Volkswagen Group of America.

Mr. McCurdy came to the Alliance after serving as President and CEO of the Electronics Industry Alliance (EIA) for eight years. As President, he helped promote the market development and competitiveness of the U.S. high-tech industry through domestic and international policy efforts for EIA's nearly 1,300 member companies. In April of 2001, Mr. McCurdy co-founded the Internet Security Alliance as a non-profit collaboration between EIA and Carnegie Mellon University CyLab to enhance cyber security. Prior to leading the EIA, Mr. McCurdy had a distinguished career in the United States House of Representatives, and as Chairman and Chief Executive Officer of the McCurdy Group, L.L.C., a successful business consulting and investment practice.

Mr. McCurdy serves as President of OICA (The International Organization of Automobile Manufacturers), a global federation of national automobile trade associations based in Paris, France. He is a member of the Advisory Board of MADD (Mothers Against Drunk Driving) and American Highway Users Alliance. Mr. McCurdy is Chairman of the Board of Directors for the Center for Strategic and Budgetary Assessments, member of the Board of Advisors for the Center for Naval Analysis and member of the Council on Foreign Relations.

In 2008, Secretary of Defense Robert Gates appointed Congressman McCurdy to the Defense Policy Board which provides the secretary with independent, informed advice and opinion concerning matters of defense policy. Mr. McCurdy was reappointed to the Defense Policy Board in 2009 by the Obama Administration. Congressman McCurdy spent 14 years (1981-1995) in the House of Representatives as the Member from the Fourth Congressional District of Oklahoma. He attained numerous leadership positions including: Chairman of the House Intelligence Committee; Chairman of the Military Installations and Facilities Subcommittee of the House Armed Services Committee; and Chairman of the Transportation Aviation and Materials Subcommittee of the Science and Space Committee. He was the youngest person in Congressional history to chair a full committee. He was also co-founder and national Chairman of the Democratic Leadership Council.

As a House Member, Congressman McCurdy played a major role in enacting numerous important legislative initiatives including: the 1988 National Superconductivity Competitiveness Act; the 1985 Goldwater-Nichols Act, which reorganized the Department of Defense; the Nunn-McCurdy Amendment in 1982, requiring Congressional notification of Department of Defense cost overruns of 15% or more; and the 1993 National Service Legislation, which originated in a bill introduced by Congressman McCurdy and Senator Nunn.

A 1972 graduate of the University of Oklahoma, Mr. McCurdy received his JD in 1975 from Oklahoma's Law School. He also studied international economics at the University of Edinburgh, Scotland, as a Rotary International Graduate Fellow. Mr. McCurdy held a commission in the United States Air Force Reserve, attaining the rank of major and serving as a Judge Advocate General (JAG). He currently serves on a number of boards and commissions and has received a host of prestigious awards and honors.

### **Matthew J. Klein**

*President*

*Akridge*

Matthew J. Klein is President of Akridge, a premier commercial real estate investor, developer and operator headquartered in Washington, DC. Akridge currently has over \$3.5 billion in assets under management, encompassing a diverse portfolio in excess of seven million square feet. Akridge has an inventory of development projects in the pipeline totaling more than 11 million square feet with a build-out cost of over \$3 billion.

Mr. Klein is responsible for the strategic and operational direction for all aspects of the Company's business, including corporate planning, acquisitions, development, finance and partner relations. Mr. Klein initiated and directed the successful undertaking of the Akridge Office Fund, established to serve as a discretionary investment fund for opportunities in the Washington, DC market.

Akridge has been recognized locally, nationally and internationally for its customer service, innovation, investment results and community involvement. The Company has received a long inventory of awards and recognition, including the National Capital Area Business Ethics Award, numerous Firm of the Year Awards and has been featured in *Washingtonian* magazine and *Washington Business Journal's* Best Places to Work. For nine of the last 10 years, Akridge has been recognized nationally by CEL & Associates as the "Best in Industry" for customer service, competing against more than 450 high-performing management companies. The Company is also frequently honored with awards for its efforts in community involvement, innovative development projects and operating practices, as well as for sustainability and smart growth initiatives. Mr. Klein is Chairman of the Board for the Downtown Business Improvement District, a Board Member and member of the Executive Committee of the DC Chamber of Commerce, an Executive Committee member of and ULI Washington District Council and a board member of the Chesapeake Bay Foundation, The Greater Washington Board of Trade, the DC Building Industry Association and a member of the Young Presidents' Organization.

Mr. Klein joined Akridge in 1998 and has been President since 2001. He has been actively engaged in real estate for more than 23 years and, in that time, has gained experience that encompasses all aspects of development, finance, asset and property management and leasing. Prior to joining Akridge in 1998, Mr. Klein held the position of Executive Vice President and Managing Director for Ashforth Pacific, Inc. Prior to that, he served as Vice President and Managing Director of Pacific Development, a subsidiary of Pacifi-Corp, Inc., a public utility headquartered in Portland, Oregon. Mr. Klein earned his Bachelor of Arts degree from Wake Forest University.

**Dr. Michael Meyer**

Director, Georgia Transportation Institute  
Georgia Institute of Technology

Dr. Michael D. Meyer holds the Frederick R. Dickerson Chair, is Director of the Georgia Transportation Institute, Professor of Civil and Environmental Engineering, and former Chair of the School of Civil and Environmental Engineering at the Georgia Institute of Technology. From 1983 to 1988, Dr. Meyer was Director of Transportation Planning and Development for Massachusetts where he was responsible for statewide planning, project development and engineering, traffic engineering and transportation research. Prior to this, he was a professor in the Department of Civil Engineering at M.I.T.

Dr. Meyer has written over 180 technical articles and has authored or co-authored numerous texts on transportation planning and policy, including a college textbook for McGraw Hill entitled *Urban Transportation Planning: A Decision Oriented Approach*. He was the author of *Transportation Congestion and Mobility: A Toolbox for Transportation Officials*, a book sponsored by the Institute of Transportation Engineers and the Federal Highway Administration that focuses on transportation actions that can be implemented to enhance mobility. His publications have examined many issues in transportation ranging from land use/transportation interactions to freight and logistics planning to climate change. He was co-principal investigator on projects for NCHRP on incorporating environmental considerations into transportation planning, and the author of a research paper on climate adaptation.

Dr. Meyer is the recipient of numerous awards including the 2009 Transportation Research Board's, W.N. Carey, Jr.'s Award for Distinguished Service; the 2006 Wilbur Smith Distinguished Educator award from the Institute of Transportation Engineers; the 2000 Theodore M. Matson Memorial Award in recognition of outstanding contributions in the field of transportation engineering; the 1995 Pyke Johnson Award of the Transportation Research Board for best paper in planning and administration delivered at the TRB Annual Meeting; and the 1988 Harland Bartholomew Award of the American Society of Civil Engineers for contribution to the enhancement of the role of the civil engineer in urban planning and development. He was Chairman of the Executive Committee of the Transportation Research Board in 2006.

Dr. Meyer has a B.S. in Civil Engineering from the University of Wisconsin, an M.S. in Civil Engineering from Northwestern University and a Ph.D. in Civil Engineering from M.I.T. He is a registered professional engineer in the State of Georgia.

**Robert Puentes**

Senior Fellow, Metropolitan Policy Program  
The Brookings Institution

Robert Puentes is a senior fellow with The Brookings Institution Metropolitan Policy Program where he also directs the Program's Metropolitan Infrastructure Initiative. The Initiative was established to address the pressing transportation and infrastructure challenges facing cities and suburbs in the United States and abroad. Mr. Puentes's work focuses on the broad array of policies and issues related to metropolitan growth and development. He is an expert on transportation and infrastructure, urban planning, growth management, suburban issues and housing.

Recent publications include: "A Bridge to Somewhere: Rethinking American Transportation for the 21st Century," "America's Infrastructure: Ramping Up or Crashing Down?" "Challenges Ahead: New Urban Demographics and Impacts on Transportation," "A Review of the Land Use Regulations in the Nation's 50 Largest Metropolitan Areas," "Prosperity at Risk: Toward a Competitive New Jersey," and "One Fifth of the Nation: A Profile of Change in America's First Suburbs." He is a frequent speaker to a variety of groups, a regular contributor in newspapers and other media and has testified before Congressional committees.

Prior to joining Brookings, Mr. Puentes was the director of infrastructure programs at the Intelligent Transportation Society of America. He holds a master's degree from the University of Virginia where he serves on the Alumni Advisory Board, and he is an affiliated professor with Georgetown University's Public Policy Institute. He serves on a variety of boards and committees including, most recently, the Northern Virginia Transportation Authority, the Tysons Corner Tomorrow Advisory Task Force, and the Falls Church, Virginia Planning Commission where he lives with his wife and three sons.