

Economic and Technology Advancement Advisory Committee Members

Alan Lloyd (Chair)

Dr. Lloyd is the President of the International Council on Clean Transportation. He served as the Secretary of the California Environmental Protection Agency from 2004 through February 2006 and as the Chairman of the California Air Resources Board from 1999 to 2004. Prior to joining ARB, Dr. Lloyd was the Executive Director of the Energy and Environmental Engineering Center for the Desert Research Institute at the University and Community College System of Nevada, Reno, and the Chief Scientist at the South Coast Air Quality Management District until 1996. Dr. Lloyd's work focuses on the viable future of advanced technology and renewable fuels, with attention to urban air quality issues and global climate change. A proponent of alternate fuels, electric drive and fuel cell vehicles eventually leading to a hydrogen economy, he was the 2003 Chairman of the California Fuel Cell Partnership and is a co-founder of the California Stationary Fuel Cell collaborative. He earned both his B.S. in Chemistry and Ph.D. in Gas Kinetics at the University College of Wales, Aberystwyth, U.K.

Bob Epstein (Vice-Chair)

Dr. Epstein is an entrepreneur and engineer with a Ph.D. from the University of California at Berkeley. He is currently the Co-Founder of Environmental Entrepreneurs, Chairman of the Board at GetActive Software, Director of New Resource Bank, Director of Cleantech Capital Group, Board Member of the Merola Opera Program, and Trustee of the Natural Resources Defense Council. Dr. Epstein co-founded Environmental Entrepreneurs (E2), a national community of professionals and business people who believe in protecting the environment while building economic prosperity. It serves as a champion on the economic side of good environmental policy by taking a reasoned, economically sound approach to environmental issues. Through active support of Natural Resources Defense Council, E2 works to influence state and national environmental policy.

Dan Adler

Mr. Adler is President of the California Clean Energy Fund (CalCEF), a nonprofit venture capital fund created to accelerate investment in California's clean energy economy. CalCEF Fund I is invested as a fund-of-funds in 40 companies covering the full range of clean energy technologies. In 2006 CalCEF founded the nation's first university center on energy efficiency, the Energy Efficiency Center at U.C. Davis, and in 2008 launched the CalCEF Clean Energy Angel Fund and an affiliated public policy and market intelligence organization, CalCEF Innovations. Mr. Adler has a B.A. in Political Science from U.C. Berkeley and an M.A. in Public Policy from Harvard University.

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Jim Beno

Mr. Beno is the Directing Business Representative of District Lodge 190 of the International Association of Machinists and Aerospace Workers and a Vice President of the California Labor Federation, AFL-CIO, which represents two million workers in California. Jim Chairs the Green Jobs Labor Roundtable, an AB32 Working Group of the California Labor Federations Executive Committee. This committee was established to, among other things, explore the emerging technologies of the new Green economy and the impact and challenges this presents to our workforce in California and identifying the skill sets needed by workers in the new emerging green industries. Jim has worked for the International Association of Machinists and Aerospace Workers (a.k.a. Machinists Union) for over thirty years. He has held positions ranging from the chief financial officer of a local union to his current position as Director of one of the largest Districts in the Machinists Union in the United States. District 190 is comprised of thirteen Local Unions representing Machinists, Mechanics and Technicians working in the Automotive, Aerospace, Manufacturing and Transportation Industries in California and Nevada. Mr. Beno holds a B.S. Degree in Construction Engineering Technology from California State University Sacramento.

Jack Broadbent

As the Executive Officer/Air Pollution Control Officer, Mr. Broadbent is responsible for directing the Bay Area Air Quality Management District's programs to achieve and maintain healthy air quality for the seven million residents of the nine county region of the San Francisco Bay Area. Mr. Broadbent joined the Air District after serving as the Director of the Air Division at the U.S. Environmental Protection Agency, Region IX, where he was responsible for overseeing the implementation of the Clean Air Act as well as indoor air quality and radiation programs for the Pacific Southwest region of the United States. Previously, Mr. Broadbent was the South Coast Air Quality Management District's Deputy Executive Officer, where he directed the development of a number of landmark programs that contributed to significant improvements in air quality in the Los Angeles region. Mr. Broadbent holds a Master's degree in Environmental Administration and a Bachelor of Science degree in Environmental Science, both from the University of California at Riverside.

Marc Burgat

Marc Burgat joined the California Chamber of Commerce in November 2007 as Vice President, Government Relations. He oversees the CalChamber public policy team and serves as its chief policy advocate. Burgat has more than 15 years of experience in public policy, government, telecommunications and advocacy. Most recently, Burgat served as director of governmental affairs for the California Cable & Telecommunications Association, where he directed all state legislative activities. He previously was chief legislative representative for the City of Los Angeles and president of Strategic Communications & Advocacy, a firm specializing in public and legislative advocacy, coalition development and issues management. In his work, Burgat has represented organizations such as the California Medical Association, the American Stroke Association and Communications Workers of America. Burgat also held a position as director of public affairs for the American Heart Association and as a chief of staff and senior consultant in the California State Assembly. Burgat earned a B.A. in government from California State University, Sacramento.

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Chris Busch

Dr. Busch is Director of Policy at the Center for Resource Solutions, where he promotes effective policy responses to the interrelated challenges of promoting clean energy innovation and reversing global warming. Previously, Chris held the position of Climate Economist in the Union of Concerned Scientists' Climate Program. From this post, he helped shape the group's positions on cap-and-trade program design and served as technical lead on these issues in UCS' advocacy on both implementation of California's Global Warming Solutions Act (Assembly Bill 32) and development of the Western Climate Initiative. In 2006, Chris co-authored the report Managing Greenhouse Gas Emissions in California while he was with UC Berkeley's California Climate Change Center. Prior to this, he served as Senior Research Associate in Lawrence Berkeley National Laboratory's International Energy Studies Group and worked in the Lab's Appliance and Lighting Standards Group. Chris holds two graduate degrees from the University of California, Berkeley: a Ph.D. in environmental economics from the Department of Agricultural and Resource Economics and a master's degree in public policy from the Goldman School of Public Policy.

Cynthia Cory

Ms. Cory is the Director of Environmental Affairs, Government Affairs Division, for the California Farm Bureau Federation (CFBF), a non-profit agricultural trade association with more than 91,500 members in 53 counties in California. She has been associated with the agricultural community for over thirty years; the past seventeen years have been at CFBF working on state and federal matters including air quality, biotechnology, climate change, transportation and renewable bioenergy issues. Ms. Cory has a M.S. in International Agricultural Development and a B.S. in Agronomy. She is also a member of the USDA Agricultural Air Quality Taskforce and serves on several advisory committees including the Governor's Environmental Advisory Task Force, the California Energy Commission's Climate Change Advisory Committee and their Biodiesel Working Group.

Jim Hawley

Mr. Hawley is the Vice President and General Counsel of Technology Network (TechNet), a California political and legislative strategy group, working with senior executives and government relations staff of California-based technology companies. He directed successful TechNet lobbying efforts related to green technology, litigation issues, e-commerce regulation, corporate taxation, and broadband deployment. Mr. Hawley has a B.A. Magna Cum Laude in political science from Amherst College, a JD from Georgetown University Law Center and an active member of the California Bar Association.

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Roland Hwang

Mr. Hwang is the Natural Resources Defense Council's Vehicles Policy Director and works on sustainable transportation policies. Mr. Hwang has been with NRDC's San Francisco office since October 2000. He is an expert on clean vehicle and fuels technologies. He serves on various advisory panels, including for the AB 118 Alternative and Renewable Fuels and Vehicles Program, the California Hydrogen Highway Network Advisory Panel, the Automotive X Prize, and the Western Governors' Association Transportation Fuels for the Future Initiative. He is the author or contributing author of eleven NRDC reports. Before joining NRDC, Mr. Hwang was the Director of the Transportation Program for the Union of Concerned Scientists (UCS) in the Berkeley, California office. Mr. Hwang has also worked for the United States Department of Energy at Lawrence Berkeley National Laboratory (LBNL) in Berkeley, California and the California Air Resources Board (CARB) as an Air Pollution Engineer. Mr. Hwang received a Bachelors from the University of California at Davis in 1986 and Masters of Science in Mechanical Engineering from the same institution in 1988. He received a Masters degree in Public Policy from the University of California at Berkeley in 1992.

Patti Krebs

Patti Krebs is the Executive Director of the Industrial Environmental Association, a Southern California public policy trade organization that represents manufacturing, technology and research and development companies on a wide variety of legislative, regulatory and policy issues that affect their facilities and operations.

Patti currently serves on the San Diego Association of Governments Energy Working Group, the Port of San Diego's Maritime Advisory Committee, the San Diego Regional Airport Authority Technical Advisory Group and has been instrumental in the organization and founding of the San Diego Regional Sustainability Partnership. She is a past member of the Board of Directors of San Diego Transit Corporation, the San Diego Natural History Museum and the San Diego Symphony. She has served on numerous statewide technical boards and commissions including the State Water Resources Control Board Advisory Group on TMDLs and the Air Resources Board Neighborhood Assessment Group. Patti has a bachelor's degree in Communications from San Diego State University.

Ralph Moran

Ralph J. Moran is BP America's Director of West Coast Climate Change Issues. In this role, Mr. Moran is accountable for the development, management, and coordination of climate-related regulatory activities and is the BP lead representative with state and local governments on climate change policy development. Previously, Mr. Moran was BP's Director of Environmental Affairs in Washington D.C. In this previous role Mr. Moran supported BP's Western Hemisphere business segments and Communications and External Affairs group by facilitating engagements with non-governmental organizations and by managing environment-related policy issues – including federal climate change policy. Mr. Moran's previous work experience includes 20 years in both the upstream and downstream segments of the oil industry including oil field formation evaluation, site remediation and government relations. Mr. Moran holds B.S. and M.S. Degrees in Petroleum Engineering from the University of Southern California.

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Dorothy Rothrock

Ms. Rothrock is Vice President of Government Relations for the California Manufacturers and Technology Association since 2000. Previously, she consulted on energy and telecommunications regulatory issues for industrial energy users, policy advocates, and economic research firms. Ms Rothrock graduated from University of Oregon and Lewis and Clark Law School, joining the Oregon Bar in 1980 and the California Bar in 1997.

Hank Ryan

Hank Ryan is currently with Efficiency Data and Development representing Small Business California. Mr. Ryan has been the lead intervenor for On Bill Financing (OBF), in the CPUC Energy Efficiency proceedings since 2004 and works closely with CA utilities currently rolling out OBF programs. He serves as Executive Director for Small Business California and is a Board Trustee for the National Small Business Association. He has been active in the commercial energy efficiency field since 1981 as an energy auditor and has operated several successful small businesses including an award winning restaurant. Mr. Ryan currently serves as the Program Manager for an EPA grant for Small Business California with a focus on Food Service Equipment and On Bill Financing.

Jan Smutny-Jones

Mr. Smutny-Jones is Executive Director of the Independent Energy Producers Association (IEP) and has represented IEP since 1987. He was a principal in the California Memorandum of Understanding and a key party in the restructuring legislation. He has served as Chair of the Governing Board of the California Independent System Operator, and as a member of the Governing Board of the California Power Exchange and the Restructuring Trusts Advisory Committee. Mr. Smutny-Jones is a graduate of Loyola Law School and is a member of the American, California State and Sacramento County Bar Associations. He did his undergraduate work at California State University, Long Beach, and has a certificate in Environmental Management from the University of Southern California.

Andrea Tuttle

Andrea Tuttle has 30 years experience in California resource policy issues. She is former Director of the California Department of Forestry and Fire Protection (CDF), and served on the California Coastal Commission and the North Coast Regional Water Quality Control Board. She was principal consultant to the Select Committee on Forest Resources in the California Senate, and has consulted on sustainable forest management in Malaysia. She currently teaches forest and fire policy in the College of Natural Resources at UC Berkeley and is a board member of The Pacific Forest Trust. She is a strong advocate for retaining working forestlands for their environmental, economic and social values, and incorporating the role of forests in a climate strategy. She has a Ph.D. in Environmental Planning from UC Berkeley and an MS in biology from the University of Washington.

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Fong Wan

Mr. Wan is Senior Vice President of Energy Procurement for Pacific Gas and Electric Company (PG&E), and is responsible for gas and electric supply planning and policies, market assessment and quantitative analysis, supply development, procurement and settlement. Mr. Wan joined PG&E in 1988 and moved to Energy Trading in 1997. He served as Vice President, Risk Initiatives for PG&E Corporation Support Services, Inc and as Vice President, Power Contracts and Electric Resource Development. Mr. Wan has a Bachelor of Science degree in chemical engineering from Columbia University and a M.B.A from the University of Michigan.

Jonathan Weisgall

Mr. Weisgall is Vice President for Legislative and Regulatory Affairs for MidAmerican Energy Holdings Company, a subsidiary of Berkshire Hathaway. He also serves as Chairman of the Board of Directors of the Center for Energy Efficiency and Renewable Technologies and President of the Geothermal Energy Association. He is an Adjunct Professor of Law at Georgetown University Law Center, where he has taught a seminar on energy issues since 1990, and he has also guest lectured on energy issues at Stanford Law School and the Johns Hopkins Environmental Science and Policy Program. Mr. Weisgall earned his B.A. from Columbia College and his J.D. from Stanford Law School, where he served on the Board of Editors of Stanford Law Review.

John Weyant

Dr. Weyant is Professor of Management Science and Engineering, a Senior Fellow in the Institute for International Studies, and Director of the Energy Modeling Forum (EMF) at Stanford University. Established in 1976, the EMF conducts model comparison studies on major energy/environmental policy issues by convening international working groups of leading experts on mathematical modeling and policy development. Prof. Weyant earned a B.S./M.S. in Aeronautical Engineering and Astronautics, M.S. degrees in Engineering Management and in Operations Research and Statistics all from Rensselaer Polytechnic Institute, and a Ph.D. in Management Science with minors in Economics, Operations Research, and Organization Theory from University of California at Berkeley. Dr. Weyant was also a National Science Foundation Post-Doctoral Fellow at Harvard's Kennedy School of Government. His current research focuses on analysis of global climate change policy options, energy technology assessment, and models for strategic planning.

Rick Zalesky

Richard E. (Rick) Zalesky is General Manager of Manufacturing, Technology & Upstream Integration for Business Evaluation and Development in Global Supply & Trading of Chevron Products Company, a division of Chevron USA, Inc. A native of Los Angeles, Calif., he is a graduate of the Georgia Institute of Technology, with a bachelor's degree in Civil Engineering. Rick joined the company in 1978 as a design engineer at the Richmond refinery. In his career, he has held a variety of management positions of increasing responsibility in the downstream in refining, marketing, and technology including general manager of the Richmond refinery. Prior to his current role Rick was the Vice President of Biofuels and Hydrogen for Chevron Technology Ventures.
