

Study Group Biographies



Chair

Burton Richter is a Nobel Laureate (Physics 1976), member of the National Academy of Sciences, and a past president of both the American Physical Society and the International Union of Pure and Applied Physics. He is the Paul Pigott Professor Emeritus at Stanford University and the former Director of the Stanford Linear Accelerator Center, one of the DOE's science laboratories. His scientific career has been mostly in High Energy Physics. For the past decade he has spent most of his time on energy issues and currently chairs a DOE advisory committee on nuclear waste treatment. He has been or is a member of many advisory committees to both industry and government.



Vice-Chair

David Goldston served as Chief of Staff of the House Committee on Science from 2001-2006. The Committee's jurisdiction includes the civilian research and development programs of the Department of Energy. He has been a Visiting Lecturer at the John F. Kennedy School of Government at Harvard University and a Visiting Lecturer and Practitioner-in-Residence in the Science, Technology and Environmental Policy Program at Princeton University's Woodrow Wilson School of Public and International Affairs. He also writes the monthly column "Party of One" on Congress and science policy for the journal *Nature*.



George Crabtree is a Senior Scientist and Distinguished Fellow at Argonne National Laboratory and Director of its Materials Science Division. He has won several research awards, including the Kamerlingh Onnes Prize in 2003 for his work on high-temperature superconductivity. He has served as Chairman of the Division of Condensed Matter Physics of the American Physical Society, as a Founding Editor of the scientific journal *Physica C*, and as a Divisional Associate Editor of *Physical Review Letters*. Recently, he served as an organizer and spokesperson for the Department of Energy's Workshops on Basic Research Needs for the Hydrogen Economy and for Solar Energy. The DOE awarded Dr. Crabtree for Outstanding Scientific Accomplishment in Solid State Physics in 1982, 1985, 1995, and 1997.



Leon Glicksman, Professor of Building Technology and Mechanical Engineering, has been the head of MIT's Building Technology Program in the Department of Architecture for the past nineteen years. He has worked on research and consulting related to energy-efficient building components and design, indoor airflow and indoor air quality. He developed the simulation program for heat pumps, which forms the basis for one of the most popular heat pump programs available today. He did basic studies to improve thermal insulation for buildings during the period when CFCs were removed from insulation. He worked on energy efficient urban housing for China. He led a study of the application of natural ventilation to buildings to improve indoor air quality and reduce energy use for air conditioning. He is the author of over 200 papers in the area of energy and heat transfer. Among his awards are the Melville Medal of the American Society of Mechanical Engineers and the Robert T. Knapp Award of the Fluids Engineering Division of ASME. He is also the Associate Editor for the *International Journal of Heating, Ventilating, Air-Conditioning and Refrigerating Research*. He is a Fellow of the ASME.

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David Goldstein is Co-director of the Natural Resources Defense Council and has worked on energy efficiency and energy policy since the early 1970s. He is a Fellow of the American Physical Society and the recipient of its Leo Szilard Award for Physics in the Public Interest. He received a MacArthur Fellowship in 2002 and is the recipient of the California Alumni Association's 2003 Award for Excellence in Achievement. David was a Founding Director of the Consortium for Energy Efficiency and the New Buildings Institute, and negotiated the agreement that led to the National Appliance Energy Conservation Act of 1987. He has been instrumental in the development of energy efficiency standards for new buildings and appliances that are currently in effect at the regional and national level in the United States, Russia, Kazakhstan, and China.



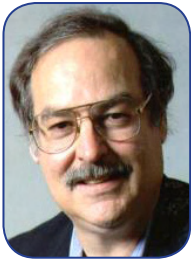
David Greene is a Corporate Fellow of Oak Ridge National Laboratory in the Center for Transportation Analysis and has spent 30 years researching transportation and energy policy issues for the U.S. government. His research interests include energy and transportation demand modeling, economic analysis of petroleum dependence, modeling market responses to advanced transportation technologies and alternative fuels, and economic analysis of policies to mitigate greenhouse gas emissions from transportation. Dr. Greene has published more than 200 articles on these subjects in professional journals, books and technical reports. His research has been recognized by awards from the Transportation Research Board, the International Association for Energy Economics, the Society of Automotive Engineers, and the U.S. Department of Energy. He has served on numerous National Research Council Committees dealing with transportation and energy issues, and is a lifetime National Associate of the National Academies.



Daniel Kammen is the founding Director of the Renewable and Appropriate Energy Laboratory at the University of California, Berkeley where he is the Class of 1935 Distinguished Professor of Energy, with appointments in the Energy and Resources Group and the Goldman School of Public Policy. He is the Co-Director of the Berkeley Institute of the Environment. Kammen was the recipient of the 1993 21st Century Earth Award, which recognizes contributions to rural development and environmental conservation, and in 2007 was named a Distinguished Citizen by the Commonwealth Club of California for his work on sustainable energy. Dr. Kammen helped develop the interdisciplinary Science, Technology, and Environmental Policy (STEP) Program at Princeton, which he chaired from 1997-1999. He has served on Intergovernmental Panel on Climate Change working groups and special reports, and is a Fellow of the American Physical Society, and a Permanent Fellow of the African Academy of Sciences. He has authored over two hundred journal publications and reports, and a book titled "Should We Risk It?"



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Mark D. Levine was director of the Environmental Energy Technologies Division, a leader in research on buildings energy efficiency, indoor air quality, and clean energy technologies, at Lawrence Berkeley National Laboratory from 1996-2006. Dr. Levine's passion in the past two decades has involved analyzing and promoting energy efficiency in China. He is a board member of four leading non-profits in the United States and one in Asia. He has founded two successful non-profits, including the acclaimed Beijing Energy Efficiency Center. He is a member of the Energy Advisory Board of Dow Chemical Company and the Advisory Board of the Asian Pacific Energy Research Centre in Tokyo. In 1999, he was elected a fellow of the California Council on Science and Technology. In addition to authoring numerous technical publications, Dr. Levine has led a series of high-profile studies: he had overall responsibility for the IPCC chapters on mitigating carbon emissions in buildings; he was co-leader of the report "Scenarios for a Clean Energy Future" and of a major study of energy and carbon futures of China. He led a major study for the World Energy Council assessing global prospects for energy efficiency.



Michael Lubell is the Director of Public Affairs of The American Physical Society (APS) and Professor of Physics at the City College of the City University of New York (CCNY), where he was Department Chair from 1999 to 2006. He has held fellowships from the U.S. Atomic Energy Commission, the National Science Foundation and the Alfred P. Sloan Foundation. He has carried out research in atomic, molecular, optical, nuclear and high-energy physics and has taught many courses on science and public policies at CCNY at Yale University. He is credited as being one of the pioneers of science lobbying in Washington and has served on many scientific advisory committees inside and outside government. He has been active in local, state and national politics for more than forty years and has been a consultant for several members of Congress. He is a Fellow of the APS and of the American Association for the Advancement of Science (AAAS).



Maxine Savitz served in the capacity of Deputy Assistant Secretary for Conservation for the DOE from 1979 – 1983. She was President of the Lighting Research Institute from 1983-1985, and a member of the California Council on Science and Technology, from 1997-2000, where she is currently a Fellow. Dr. Savitz recently retired as the General Manager for Technology Partnerships at Honeywell, Inc. During her career at Honeywell, she oversaw the development and manufacturing of innovative materials for the aerospace, transportation, and industrial sectors. She is currently a member of Advisory Boards at Sandia, Pacific Northwest, and Oak Ridge National Laboratories. Dr. Savitz was elected to serve a four-year term as the National Academy of Engineering's Vice-President in 2006. She is Director of The Advisory Group, a management-consulting firm located in Washington, DC, where she advises on research and development management, energy and environmental policy, materials development, production and utilization, and technology transfer.

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Daniel Sperling is a Professor of Civil Engineering and Environmental Science and Policy, and founding Director of the Institute of Transportation Studies at the University of California, Davis. He is also Associate Director of the UC Davis Energy Efficiency Center and UC Davis Road Ecology Center. Dr. Sperling is an expert on transportation technology assessment, and environmental aspects of transportation policy. In the last 20 years, he has authored or co-authored over 200 technical papers and ten books. He was selected a National Associate of the National Academies in 2004, and awarded the 2002 Carl Moyer Memorial Award for Scientific Leadership and Technical Excellence by the Coalition for Clean Air. Most recently, Governor Arnold Schwarzenegger appointed Dr. Sperling to the California Air Resources Board (ARB).



Study Group Research Staff

Fred Schlachter is a Staff Scientist at the Lawrence Berkeley National Laboratory, on leave from the Advanced Light Source. His research interests span a wide range in atomic and molecular physics using a variety of large particle accelerators. He has lived in France and Germany, has been a Visiting Professor at the University of Paris, and is presently Visiting Professor at Chiang Mai University in Thailand. Fred has organized many international schools and conferences in the United States and abroad. He is co-author of an article in *Scientific American* titled “Making Ultrabright X-rays”; he is on the Board of Consulting Editors for the McGraw-Hill *Encyclopedia of Science and Technology*; and he is a Fellow of the American Physical Society.



John H. Scofield is a Professor of Physics & Astronomy at Oberlin College, where he has served for the past twenty years. He chaired his department from 2001-2005 and currently teaches a large, general-audience course on Energy Technology. Before joining the Oberlin faculty, Dr. Scofield was a Member of Technical Staff at AT&T Bell Laboratories in Holmdel, NJ. He has received multiple fellowships from NASA and the Associated Western Universities and has been awarded grants and contracts from the NSF, NASA, and Sandia National Laboratories. A condensed matter experimentalist by training, John’s research interests have shifted to energy-related topics including photovoltaic devices, photovoltaic arrays, green buildings, and wind energy (Scofield is Founder of the Oberlin Wind Power Initiative). His papers on these topics have appeared in *IEEE*, *ASHRAE*, and *ASES* (American Solar Energy Society) publications.



Study Group Members

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Argonne National Laboratory

Leon Glicksman

Massachusetts Institute of Technology

David Goldstein

Natural Resources Defense Council

David Goldston, *Vice-Chair*

Harvard University

Former Chief of Staff,

House Science Committee

David Greene

Oak Ridge National Laboratory

Dan Kammen

University of California, Berkeley

Mark Levine

Lawrence Berkeley National Laboratory

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