

Speaker Biographies

Dear Conference Attendees:

Attached please find biographies for the speakers currently scheduled to participate in the upcoming Duke Leadership Forum on *Creating a Sustainable Energy Future*. We think you will agree that we have assembled an impressive array of leaders from all across the world of energy. We encourage you to review this material before the conference in order to understand the interests and experience of our speakers, as there will be many opportunities for you to interact informally with speakers during the conference.

We look forward to seeing you on March 8th,

*Duke Environmental Leadership Program Office
Nicholas School of the Environment and Earth Sciences*



Larry Burns was named vice president of General Motors Research & Development and Planning in May 1998. In this post, he oversees GM's advanced technology and innovation programs and has responsibility for the company's product, capacity, and business plans. He is a member of the Automotive Strategy Board. In addition to driving innovation into today's vehicles, Burns is championing GM's "reinvention" of the automobile around promising new technologies like fuel cells and by-wire systems. The goal is to realize sustainable mobility with vehicles that are affordable and aspirational. Burns began his career in 1969 as a member of the Research & Development Staff, where his research focused on transportation, logistics, and production systems. He subsequently held executive positions in several GM divisions in the areas of product program management, quality, production control, industrial engineering, and product and business planning. Burns holds a Ph.D. in civil engineering from the University of California at Berkeley. He also has a master's degree in engineering/public policy from the University of Michigan and a bachelor's degree in mechanical engineering from General Motors Institute (now Kettering University). Burns serves on the boards of the Deafness Research Foundation and the University of Michigan's Center for Hearing Disorders.



Thos. E. Capps, is chairman of the board and chief executive officer of Dominion. A native of Wilmington, N.C., Capps earned his undergraduate and law degrees from the University of North Carolina. After practicing law in Winston-Salem, N.C., Capps joined Carolina Power & Light Co. in 1970 as senior counsel. In 1974 he joined Boston Edison Co. as vice president and general counsel. In 1975, Capps joined the Miami law firm Steel Hector and Davis as a partner. He also served as chairman of the executive committee for the 100-member firm. Capps joined Dominion's principal subsidiary, Virginia Power, as executive vice president in 1984 and assumed the position of president of Dominion in November 1986. In March 1989, he was elected chief operating officer. In May 1990, he was elected chief executive officer, and on Dec. 31, 1992, he was elected chairman of the board, president and chief executive officer. After the company's merger with Consolidated Natural Gas in January 2000, Capps became vice chairman, president and chief executive officer of the combined company. He assumed the title of chairman in August 2000. Capps formerly served as a director of Bassett Furniture Industries Inc. and NationsBank Corp. He is a member of the board of visitors of The College of William & Mary in Williamsburg, Va., and the board of trustees of the Virginia Foundation for Independent Colleges. He also is a member of St. Stephen's Episcopal Church. He is married to the former Sandra Lee Hurley of Denver, Colo. They have four daughters and live in Richmond, Va.





Bill Cavanaugh, a professional with 34 years of experience in the commercial energy industry, is chairman and chief executive officer of Progress Energy, a Raleigh, NC-based diversified energy company serving 2.8 million electric customers in the Carolinas and Florida. Cavanaugh came to Progress Energy, then-CP&L, in 1992 after a 23-year career at Entergy Corp. At Entergy, Cavanaugh held a number of management positions, including group president of Energy Supply; chairman, president and CEO of Entergy Operations Inc.; and chairman, president and CEO of System Energy Resources Inc. Earlier in his career at Entergy, he held management positions with Arkansas Power & Light, Louisiana Power & Light and Mississippi Power & Light. He assumed the role of CEO of then-CP&L in 1996 and was named chairman in 1999. A native of New Orleans, Cavanaugh earned a bachelor's degree in mechanical engineering from Tulane University in 1961. He also has completed several utility management programs at the Harvard University Advanced Management Program. Cavanaugh served an eight-year tour with the U.S. Navy, primarily in the nuclear-powered submarine program. Cavanaugh serves as a member of The Business Roundtable; the National Academy of Engineering; the board of directors of the U.S. Chamber of Commerce; the governing board of the World Association of Nuclear Operators, on which he also serves as Atlanta Center chairman; the board of directors of the Edison Electric Institute; the board of visitors at the University of North Carolina Kenan Flagler School of Business; and the Advisory Board of Tulane's School of Engineering. He also serves on board of directors for the Research Triangle Foundation.



Christopher Flavin Christopher Flavin is President of the Worldwatch Institute, an international research organization whose focus is an environmentally sustainable future. Worldwatch is recognized for its path-breaking work on the global connections between economic, social, and environmental trends. Flavin is a regular co-author of the Institute's State of the World book, which has been published in 36 languages. Chris Flavin's research and writing focus on the development of an environmentally sustainable economy, with a particular focus on energy. He has written extensively on energy strategies and policies, including renewable sources of energy, electricity restructuring, and the potential for hydrogen. He is co-author of three books on energy, including *Power Surge: Guide to the Coming Energy Revolution* (WW Norton, 1994), in which he describes the potential shape of a post-petroleum energy economy. Flavin is a founding member of the Board of Directors of the Business Council for Sustainable Energy and serves on the National Academy of Sciences Board on Energy and Environmental Systems as well as the Boards of Directors of the Climate Institute and the Environmental and Energy Study Institute. Chris Flavin appears regularly on radio and television, including the BBC, CNN, NPR, PBS's Newshour, and Voice of America. He is a native of Monterey California and a cum laude graduate of Williams College, where he studied economics, biology, and environmental studies.





William Friedrich began his career with Shearman & Sterling, the international law firm based in the USA, in 1975. He practiced there as a general corporate lawyer, working mainly on international transactions, and ultimately headed the firm's worldwide project development and project finance practice. During his career at Shearman & Sterling he worked on major transactions, negotiating on behalf of US and foreign commercial banks, investment banks and industrial companies, and in some cases, for foreign government agencies. Significant transactions on which he worked include representation of the Bank Advisory Committee for Brazil (a committee composed of Brazil's major creditor banks) in connection with the negotiation and documentation of the refinancing of more than \$60 billion of Brazil's external debt. He became a partner of Shearman & Sterling in 1983. He joined British Gas as General Counsel in December 1995 and took up the additional appointment of Deputy Chief Executive in October 2000, when the Group demerged the Lattice Group plc.



Howard Gruenspecht was named as Deputy Administrator of the Energy Information Administration (EIA) in March 2003. Over the past 25 years, Dr. Gruenspecht has worked extensively on electricity policy issues, including restructuring and reliability, regulations affecting motor fuels and vehicles, energy-related environmental issues, and economy-wide energy modeling. Before joining EIA, he was a Resident Scholar at Resources for the Future. From 1993 to 2000, Dr. Gruenspecht served as Director of Economic, Electricity and Natural Gas Analysis in the Department of Energy's (DOE) Office of Policy, having originally come to DOE in 1991 as Deputy Assistant Secretary for Economic and Environmental Policy. His accomplishments as a career senior executive at DOE have been recognized with two Presidential Rank Awards. Prior to his service at DOE, Dr. Gruenspecht was Senior Staff Economist at the Council of Economic Advisers (1989-1991), with primary responsibilities in the areas of environment, energy, regulation, and international trade. His other professional experience includes service as a faculty member at the Graduate School of Industrial Administration, Carnegie-Mellon University (1981-1988), Economic Adviser to the Chairman of the U.S. International Trade Commission (1988-1989), and Assistant Director, Economics and Business, on the White House Domestic Policy Staff (1978-1979). Dr. Gruenspecht received his Ph.D. in Economics from Yale University in 1982 and his B.A. from McGill University in 1975.



John S. Hahn is a Partner in the law firm of Mayer, Brown, Rowe & Maw LLP. He practices environmental law from the firm's Washington, D.C. office. Mr. Hahn received his A.B. degree at Duke University in 1974 before attending Yale Law School, where he received his J.D. degree in 1977. He has been a recipient of The Nature Conservancy's Oak Leaf Award, its highest honor, for his work on behalf of conservation. Mr. Hahn is a member of the Board of Visitors of the Nicholas School of the Environment.





David G. Hawkins began his work in “public interest” law upon graduation from Columbia University Law School in 1970. After working for the Stern Community Law Firm in Washington, DC for one year, he joined NRDC’s then new Washington office in 1971. Together with former NRDC attorney Dick Ayres, Mr. Hawkins began NRDC’s Clean Air Project. The Project has monitored and shaped the design of the federal Clean Air Act since the law’s passage. The intent of the Project has been to provide a voice for the public in the countless decisions that EPA and State agencies make every year in delivering on the law’s promise of improved air quality. In the early 1970s, Mr. Hawkins was successful in persuading the U.S. Environmental Agency (EPA) to deny delays to the auto industry in meeting pollution cleanup schedules; he also won a major case requiring EPA to develop programs to improve transportation systems in urban areas as an air pollution control strategy. In 1977 he was appointed by President Carter to be Assistant Administrator for Air, Noise, and Radiation at EPA. In that position he was responsible for initiating major new programs under the 1977 Amendments to the Clean Air Act. With President Reagan’s election in 1981, Mr. Hawkins returned to NRDC to co-direct NRDC’s Clean Air Program. Working with the Clean Air Coalition, NRDC defeated a prolonged effort by the new administration to roll back the protections of the Clean Air Act. Eventually Congress passed a much-strengthened law in 1990 and NRDC was a major architect for all of its provisions. Since 1990 Mr. Hawkins has directed NRDC’s Air and Energy Program, and in 2001 became director of the NRDC Climate Center, which focuses on advancing policies and programs to reduce pollution responsible for global warming and harmful climate change.



Fred Krupp, Krupp is president of Environmental Defense, a nonprofit that links science, economics and law to find solutions to the most serious environmental problems. It focuses on biodiversity, climate, oceans and health. Krupp helped develop the market-based acid rain reduction plan in the 1990 Clean Air Act, the U.S. proposal to achieve least-cost greenhouse gas reductions in the Kyoto Protocol, and a series of corporate partnerships with McDonald’s, BP, FedEx and others. Since Krupp joined Environmental Defense in 1984, its annual budget has grown from \$3 million to more than \$45 million, staff increased from 50 to more than 250 and membership expanded from 40,000 to over 400,000. Krupp serves on the board of the H. John Heinz III Center for Science, Economics and the Environment; the Kennedy School Environment Council, and the Leadership Council of the Yale School of Forestry and Environmental Studies, where a fellowship has been established in his honor. He has served on environmental commissions established by Presidents Clinton and George H.W. Bush. He received the 1999 Keystone Leadership in Environment Award and the 2002 Champion Award from the Women’s Council on Energy and the Environment. A graduate of Yale with a law degree from the University of Michigan, Krupp practiced law and founded the Connecticut Fund for the Environment prior to joining Environmental Defense. He lives in Connecticut with his wife and their three children.





Steven F. Leer has served as the president and chief executive officer of Arch Coal, Inc. since the company was formed in July 1997. Arch Coal is the nation's second largest coal company, with approximately 110 million tons of annual coal production. Prior to the formation of Arch Coal, Leer served as president and chief executive officer of Arch Mineral Corporation, one of Arch Coal's predecessor companies. Leer has also held executive management positions with The Valvoline Company (a subsidiary of Ashland Inc.), Ashland Inc. and Ashland Coal, Inc. In addition to his executive and board responsibilities with Arch Coal, Leer serves on the boards of Norfolk Southern Corporation, Natural Resource Partners, LLC, the Western Business Roundtable and the Mineral Information Institute. He is a member of The Business Roundtable and the National Association of Manufacturers. Leer is past chairman and continues to serve on the Boards of the Center for Energy and Economic Development, the National Coal Council, and the National Mining Association. He is also an American delegate to the Coal Industry Advisory Board of the International Energy Agency in Paris. A native of Vermillion, South Dakota, Leer graduated from the University of the Pacific with a B.S. in electrical engineering in 1975. He received his MBA from Washington University's Olin School of Business in 1977. The University of the Pacific awarded him an honorary doctorate in May 1993.



Jeremy Leggett, 49, is Chief Executive of Solar Century, a pioneering UK-based solar electric power company. He is also a founding board member of the world's first private-equity-focussed renewable energy fund, Bank Sarasin's New Energies Invest AG. He is a member of the UK Government's Renewables Advisory Board and an Associate Fellow at Oxford University's Environmental Change Institute. Leggett took his PhD at the University of Oxford in 1978, and joined the faculty at the Imperial College of Science and Technology, where during an 11 year career he won two major awards for his research, sat on several advisory committees for the UK government's Natural Environment Research Council, and consulted for the oil industry in the UK and Japan. Between 1989 and 1996, he was an environmental campaigner with Greenpeace International, working closely with industry. In 1996, he served as a Visiting Fellow at Oxford University's Green College Centre for Environmental Policy and Understanding, working under the UK Prime Minister's environment advisor, Sir Crispin Tickell. That year, he won the US Climate Institute's Award for Advancing Understanding, at which time the Washington Post described him as "one of the half-dozen experts most responsible for putting climate change on the international agenda." In 1997, he chaired the UK government's Industry Solar Taskforce, on which serving companies included BP, Eastern Electricity, National Westminster Bank, and General Accident. In 1999, the Financial Times described him as having "done more to change attitudes towards the (solar) resource than almost any other individual," and in 2000, Time magazine profiled him as one of "the next generation of young leaders."





John Manzoni (43) graduated from Imperial College, London in 1983 with an Honours Degree in Civil Engineering and a Masters in Petroleum Engineering. In 1994, he was a Sloan Fellow at Stanford University where he earned a Masters Degree in Business Management. He joined BP in 1983 and spent the early part of his career working in the North Sea. He has worked in a variety of roles including Head of Investor Relations, Head of Strategy, and Vice President, Prudhoe Bay in Alaska. More recently he was the executive from BP responsible for the merger integration process between BP and Amoco, and then became Group Vice President in charge of Downstream European Marketing, in addition to downstream planning and performance globally. In 2000, he was appointed Regional President for the eastern United States and in 2001, an Executive Vice President and the Chief Executive for Gas, Power and Renewables, the post he held until his current appointment in 2002. He was appointed to the board to BP plc in January 2003. John is a member of the advisory board of the Stanford Graduate School of Business and Accenture Energy Advisory Board.



Aubrey K. McClendon has served as Chairman of the Board, Chief Executive Officer and Director of Chesapeake Energy Corporation (NYSE: CHK) since he co-founded the company with Tom L. Ward in 1989. Chesapeake Energy Corporation is one of the 10 largest independent natural gas producers in the U.S. In addition to serving on various industry and charitable boards, Mr. McClendon is a member of the Board of Visitors of the Fuqua School of Business at Duke University and graduated from Duke University in 1981.



A native of Philadelphia, DEP Secretary **Kathleen A. McGinty** earned a chemistry degree from Saint Joseph's University and a law degree from Columbia University School of Law. Since then, her career has taken her to the White House and around the world. Between 1998 and 2001, Secretary McGinty served in various capacities in national and international public policy leadership. She chaired the White House Council on Environmental Quality and acted as Deputy Assistant to President Bill Clinton. She also created and headed the first-ever White House Office on Environmental Policy. In this capacity, and as the senior U.S. government official on environmental matters, Secretary McGinty worked to create a new approach to these issues that bring together environmental and economic interests. In 1999, Secretary McGinty completed a year stay in India as a Senior Visiting Fellow with the Tata Energy Research Institute. While there, she forged new partnerships and alliances between U.S. and Indian advanced energy technology companies, and helped to craft an historic environmental cooperation compact between the governments of the United States and India. Upon her return in 2000, she acted as counselor to Vice President Al Gore during the presidential campaign and served as a senior policy advisor to the Democratic National Committee. Most recently, Secretary McGinty served as vice president for asset management at Natsource LLC, a financial services firm specializing in clean energy investments. She also served as director of Proton Energy Systems Inc, a leading fuel cell infrastructure company, and as an advisor for a European venture capital firm interested in clean energy. Secretary McGinty currently serves on the Board of Trustees of St. Joseph's University. In 2003, Secretary McGinty became the first woman to head the state Department of Environmental Protection, a 3,000-employee agency with a mission to protect Pennsylvania's air, land and water from pollution and provide for the health and safety of its citizens through a cleaner environment. Secretary McGinty's emphasis is in creating approaches to environmental problems that generate economic growth and encourage advanced technology development in Pennsylvania.





J. Todd Mitchell is President of Houston Advanced Research Center (HARC), a non-profit research organization in The Woodlands, Texas. HARC promotes sustainable development through its research in energy, environment, and life sciences, and has been involved in technology development in the Houston area for almost two decades. Mr. Mitchell has a BA in Geology from The Colorado College (1981), and an MA in Geology from The University of Texas at Austin (1987). His master's thesis research focused on coral reef ecology and limestone diagenesis in modern reefs in North Jamaica. He has worked extensively in the energy industry, first as a co-founder of Strand Energy, an oil and gas exploration company, and later as co-founder of Rock Solid Images, a developer of seismic and petrophysical technologies for high resolution reservoir characterization and imaging. Mr. Mitchell served on the Board of Directors of Mitchell Energy & Development Company for seven years, and is currently a Director of Devon Energy, one of the country's largest producers of natural gas.



Paul R. Portney is President of Resources for the Future (RFF). An economist by training, Paul joined the research staff of RFF in 1972. Since then, he has become a senior fellow and directed two of RFF's research divisions -- its Quality of the Environment division and its Center for Risk Management. He became Vice President in 1989 and was named President in 1995. In 1979-80, Paul took leave from RFF to be the chief economist at the Council on Environmental Quality in the Executive Office of the President. He has been a visiting professor at the University of California-Berkeley (1977-79), and taught a course at Princeton University from 1992-96. Formerly he chaired the Environmental Economics Advisory Committee of the U.S. Environmental Protection Agency's Science Advisory Board (SAB), and was a member of the SAB's Executive Committee. He is the author, coauthor, or editor of nine books, including *Footing the Bill for Superfund Cleanups: Who Pays and How?*, and *Public Policies for Environmental Protection*, now in its second edition. Paul received his bachelor's degree in economics and mathematics from Alma College (Michigan), and his Ph.D. in economics from Northwestern University.



Lincoln Pratson is Associate Professor of Sedimentary Geology at Duke University. His research revolves around the role of sedimentary processes in shaping continental margins. Specific research interests include the dynamics of both current- and gravity-driven sediment transport, submarine canyon formation and seafloor evolution, the causes and consequences of submarine slope failure, and the interplay between marine sedimentation and tectonics. He conducts this research using a variety of methods. These range from seafloor mapping using multibeam bathymetry, side-scan sonar imagery, and shallow cores, to sequence stratigraphy based on seismic reflection profiles and borehole data constrained in some instances by gravity measurements. Dr. Pratson also uses numerical and experimental models of sedimentary processes for testing ideas about their dynamics and predicting their contribution to and imprint on the morphology and stratigraphy of continental margins.





Simon Rich retired in 2001 as CEO of Louis Dreyfus Holding Co. and Chairman and CEO of Louis Dreyfus Natural Gas, and has more than 20 years of experience in all aspects of the energy industry in North America and Europe. Louis Dreyfus has maintained operations in oil refining, petroleum product storage and distribution, natural gas production and distribution, and the distribution and merchandising of electricity in North America and Europe. During Mr. Rich's tenure as CEO, the company created EDF Trading, which currently dispatches the electric generation system of France. Mr. Rich is currently Chairman of Carolina Green Energy, a company designed to bring renewable power alternatives to North Carolina consumers. He serves as Chairman of the Board of Visitors of The Nicholas School of the Environment and Earth Sciences at Duke University and as an adjunct instructor at the school, where he teaches courses on Energy and the Environment and Hydrocarbon Production and Use. Mr. Rich is a graduate of Duke University, and lives in Edenton and Durham, NC.



Paul Risher has been a private investor and consultant with a focus on the energy industry for 12 years. He graduated from Duke University with a BS in Mechanical Engineering and has been very active as an alumnus throughout the intervening years, including serving as the President of the Duke Alumni Association for 1987/88. Resulting from his energy focus and his Duke involvement, he has played an originating and material role in the development of Duke's plans for this Forum. Mr. Risher was a consultant with McKinsey & Company, Inc.; President and CEO of Panorama Air, Inc.; and President and CEO of Newburger, Loeb & Co., Inc, prior to devoting full time to his present activities.



Richard L. Sandor is Chairman and Chief Executive Officer of Chicago Climate Exchange, Inc., a self-regulatory exchange that administers a voluntary greenhouse gas reduction and trading program for North America. Dr. Sandor is widely recognized as a founder of the interest rate derivatives markets now traded worldwide as well as catastrophe insurance derivatives. Most recently, he has designed revolutionary market mechanisms for market-based environmental protection programs. During 1997 and 1998 Dr. Sandor served as Second Vice Chairman - Strategy for the Chicago Board of Trade. His responsibilities included both electronic trading and new products. Richard Sandor is currently a director of NASDAQ LIFFE Markets (NQLX) and of the IntercontinentalExchange, an electronic marketplace for commodity and derivative products. He is a Director of American Electric Power, a Columbus-based public utility that provides electric power, telecommunication, energy efficiency and financial services. He is also a Director of the Zurich-based Sustainable Performance Group, an investment and risk management company which invests in pioneering and leading companies which have taken up the cause of sustainable business and a member of the design committee of the Dow Jones Sustainability Index. Dr. Sandor is also a research professor at the Kellogg Graduate School of Management at Northwestern University.





William H. Schlesinger is James B. Duke Professor of Biogeochemistry and Dean of the Nicholas School of the Environment and Earth Sciences at Duke University. Completing his A.B. at Dartmouth (1972), and Ph.D. at Cornell (1976), he joined the faculty at Duke in 1980. He is the author or coauthor of over 160 scientific papers and the widely-adopted textbook *Biogeochemistry: An analysis of global change* (Academic Press, 2nd ed. 1997). He was elected a member of the American Academy of Arts and Sciences in 1995 and The National Academy of Sciences in 2003. Currently, Schlesinger focuses his research on global change ecology. He is the co-principal investigator for the Free Air Carbon Dioxide Enrichment (FACE) Experiment in the Duke Forest—a project that aims to understand how an entire forest ecosystem (vegetation and soils) will respond to growth in elevated CO₂. He has also worked extensively in desert ecosystems and their response to global change—often leading to the degradation of soils and regional desertification. From 1991 to 2000, he served as Principal Investigator for the NSF-sponsored program of Long Term Ecological Research (LTER) at the Jornada Basin in southern New Mexico. His past work has taken him to diverse habitats, ranging from Okefenokee Swamp in southern Georgia to the Mojave Desert of California. His research has been featured on NOVA, CNN, NPR, and on the pages of Discover, National Geographic, The New York Times, and Scientific American. Schlesinger has testified before U.S. House and Senate Committees on a variety of environmental issues, including preservation of desert habitats and global climate change. Schlesinger has been elected President of the Ecological Society of America for 2003-2004.



Ruth Shaw is president, Duke Power Company, and a member of Duke Energy's Executive Advisory Council. Shaw was named to her current position in March 2003. She previously served as Duke Energy's executive vice president and chief administrative officer from 1997 to 2002. Her responsibilities included corporate services; human resources; environment, health and safety; public affairs; information management; global sourcing and logistics; diversity, ethics and compliance; and market and brand strategy. She also served as a member of the company's Policy Committee and as president of The Duke Energy Foundation. Shaw joined Duke Power in September 1992 as vice president of corporate communications and was named senior vice president of corporate resources in 1994. Shaw is a member of the boards of directors of the Nuclear Energy Institute and the Southeastern Electric Exchange. She serves on several committees of the Edison Electric Exchange. She is a director of Wachovia Corp., one of the nation's largest financial services companies. She is also a director of MedCath Corp. A native of Danville, Va., Shaw received her bachelor of arts (magna cum laude) and her Master of Arts degrees in English from East Carolina University. She received her doctorate in higher educational administration from the University of Texas at Austin, where she was a University Fellow. She is married to Colin S. Shaw and has two sons.





William Shutkin is a leading voice in environmentalism and sustainable development in the United States. He is President of New Ecology, Inc., an environmental organization based in Cambridge, Massachusetts that promotes sustainable urban development. A lawyer and social entrepreneur, he teaches in the Department of Urban Studies and Planning at MIT and is an Adjunct Professor of Law at Boston College Law School. He is author of the book, *The Land That Could Be: Environmentalism and Democracy in the Twenty-First Century*, which won the 2001 Best Book Award for Ecological and Transformational Politics from the American Political Science Association, was selected by *Time Magazine* as a “Green Century” recommended book, and was translated into Hindi for publication in India. Starting July 1, 2004, Shutkin will become the President and CEO of the Vermont and Colorado-based Orton Family Foundation, which promotes civic engagement in land use planning.



Matthew Simmons is Chairman and Chief Executive Officer of Simmons & Company International, a specialized energy investment banking firm. The firm has advised clients on nearly 500 investment banking projects at a combined dollar value of approximately \$58 billion. Mr. Simmons was raised in Kaysville, Utah. He graduated cum laude from the University of Utah and received an MBA with Distinction from Harvard Business School. He served on the faculty of Harvard Business School as a Research Associate for two years and was a doctoral candidate. Mr. Simmons founded Simmons & Company International in 1974. Today the firm is one of the largest energy investment banking groups in the world. Mr. Simmons is a Trustee of The Museum of Fine Arts, Houston and The Farnsworth Art Museum in Rockland, Maine. He serves on the Board of Directors of Kerr-McGee Corporation (Oklahoma City), The Atlantic Council of the United States (Washington D.C.), The Initiative for a Competitive Inner City (Boston), Houston Technology Center (Houston) and the Center for Houston's Future (Houston). He is also on The University of Texas M.D. Anderson Cancer Center Foundation Board of Visitors (Houston), is a Charter Member of the University of Houston National Advisory Council (Houston) and a Trustee of the Bermuda Biological Station for Research. In addition, he is past Chairman of the National Ocean Industry Association. He serves on the Board of Directors of the Associates of Harvard Business School and is a past President of the Harvard Business School Alumni Association and a former member of the Visiting Committee of Harvard Business School. He is a member of The Council on Foreign Relations and The Advisory Council of the National Trust for Historic Preservation.





Art Smith is Chairman & CEO of John S. Herold, Inc. the Norwalk, Connecticut-based petroleum research and consulting firm. A native of New Orleans, Mr. Smith attended Duke University for his BA. He pursued graduate work at New York University's Stern School of Business where he received an MBA in Economics. Mr. Smith holds the Chartered Financial Analyst (CFA) designation. Smith acquired control of John S. Herold, Inc. from its founder in 1984 after nine years on Wall Street in institutional equity research and corporate finance with Oppenheimer and Co. Inc., The First Boston Corp., and Argus Research Corp. Founded in 1948, John S. Herold, Inc. is a specialized research and consulting firm, providing clients with insights on energy industry capital markets together with independent analysis of the valuation and performance of the world's energy companies. Herold's team of analysts actively follow more than 400 publicly traded energy companies representing over \$2 trillion in market capitalization. Herold serves a global client base comprised of top institutional and investment money managers, the world's leading commercial and investment banks, and virtually every major and independent oil company.



Joseph Stanislaw, co-author of *The Commanding Heights: The Battle for the World Economy*, is a leading advisor on international economics, energy markets, and corporate strategy. He received his BA from Harvard University and his Ph.D. in economics from Edinburgh University. Stanislaw was a professor of economics at Cambridge University, where he was also a member of the Energy Research Group in the university's Cavendish Laboratory. He was senior economist at the OECD International Energy Agency in Paris and currently serves on the board of the Global Decisions Group and the American University in Paris. With Daniel Yergin, Stanislaw is co-founder and president of Cambridge Energy Research Associates, an independent energy research and information firm in Cambridge, Massachusetts.



Susan Tomasky is executive vice president-policy, finance and strategic planning for American Electric Power and also serves as chief financial officer and corporate secretary. She has functional responsibility for finance and analysis, legal and regulatory affairs, public policy, corporate communications and corporate development. She reports to the chairman. Tomasky joined AEP in 1998 as senior vice president and general counsel and served as executive vice president and general counsel before her current appointment. Prior to joining AEP, she was a partner with the Washington, D.C., office of Hogan & Hartson, where she was a member of the firm's energy group. From 1993-97, she served as general counsel of the Federal Energy Regulatory Commission (FERC), where she was a primary legal and policy advisor to the commission. A native of Morgantown, W.Va., Tomasky holds a juris doctor degree with honors from George Washington University National Law Center in Washington, D.C., where she was a member of the Law Review. She also is an honors graduate of the University of Kentucky in Lexington. She lives in Columbus, Ohio, with her husband, Ronald Ungvarsky, and their daughter, Victoria.



Thomas A. Tombrello is the Chair of the Division of Physics, Math and Astronomy, William R. Kenan, Jr., Professor and Professor of Physics, and Technology Assessment Officer at the California Institute of Technology. His research interests include applications of nuclear and ion beam physics to problems in materials science, geochemistry, and technology. Tombrello received his bachelor's degree in physics from Rice Institute, where he went on to receive both his master's and doctorate degrees in the same field. He is a consultant at Lawrence Livermore National Laboratory, Schlumberger Ltd., Blue Origin Inc. and Applied Minds Inc.





Jonathan Wiener is Professor of Law, of Environmental Policy, and of Public Policy Studies at Duke University, and the Faculty Director of the Duke Center for Environmental Solutions. He has written widely on U.S. and international environmental law and risk regulation, including numerous articles and the books *Reconstructing Climate Policy* (AEI Press 2003, with Richard B. Stewart) and *Risk vs. Risk* (Harvard University Press 1995, with John D. Graham). Before coming to Duke, he worked on U.S. and international environmental policy at the White House Council of Economic Advisers and Office of Science and Technology Policy, and at the United States Department of Justice, in both the first Bush and Clinton administrations. He also helped organize the environmental component of the Americorps national service program. He attended the Rio Earth Summit in 1992. In 1999 he was a visiting professor at Harvard Law School. In 2002 he was named a University Fellow of Resources for the Future (RFF), the environmental economics think tank. In 2003 he received the Chauncey Starr Young Risk Analyst Award from the Society for Risk Analysis (SRA) for the best work in the field of risk analysis by a scholar aged 40 or under. Professor Wiener clerked for Judge (now U.S. Supreme Court Justice) Stephen G. Breyer on the U.S. Court of Appeals in Boston in 1988-89, and for Chief Judge Jack B. Weinstein on the U.S. District Court in New York in 1987-88. He received his A.B. in economics (1984) and his J.D. (1987) from Harvard University, where he was an editor of the *Harvard Law Review* and helped coach the 1985 intercollegiate debate champions.



Rhonda I. Zygocki is Vice President, Health, Environment and Safety (HES) for ChevronTexaco Corp. In this capacity, she is responsible for leading HES strategic planning and issues management, compliance and auditing, and emergency response. In addition, ChevronTexaco's Environmental Management Company, which manages environmental remediation and abandonment liabilities, reports to her. A native of St. John's Newfoundland, Canada, Zygocki graduated in 1980 from Memorial University of Newfoundland where she earned a bachelor's degree in civil engineering. Upon graduation, she joined Chevron Canada Resources (CCR) in Calgary, as a petroleum engineer. After serving in various positions of increasing responsibility, she was named CCR general manager, strategic business services, in August 1993. In December 1994, Zygocki was appointed profit center manager for Chevron U.S.A. Production Co., in Houston. In March 1997, she returned to Canada as chief financial officer for CCR. Zygocki moved to the company's headquarters in January 1999, when she was named manager of strategic planning for Chevron Corp. In 2000, she was named advisor to the chairman of the board for Chevron Corp., and subsequently was responsible for overseeing the merger integration planning office through mid-2001. After the formation of ChevronTexaco in October 2001, she was named managing director of ChevronTexaco Australia Pty Ltd located in Perth, Australia. She is a board member of the International Association of Oil and Gas Producers, the International Petroleum Industry Environmental Conservation Association and Engineers Without Borders.



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