

2017 Aspen Institute Forum on Global Energy, Economy, and Security

July 23-26, 2017

Aspen, CO

PARTICIPANT BIOGRAPHICAL INFORMATION

CO-CHAIRS

Mary Landrieu

Senior Advisor, Van Ness Feldman

Senator Mary Landrieu started her career in public service in 1979, when she was elected to the Louisiana State Legislature, at the age of 23, the youngest woman to ever be elected. For eight years, she successfully championed causes related to women and children, flood protection, and education reform. In 1987, she was elected State Treasurer, and served with distinction for two terms. Strong fiscal management, pension fund diversification, debt limitation, and the creation of the first ever-municipal investment fund, now valued at over \$2 billion, are some of her noteworthy accomplishments. She was elected to the United States Senate in the fall of 1996, and became the first woman from Louisiana elected to serve a full term in the United States Senate. As a member of the Armed Services Committee, the Appropriations Committee, Chairwoman of the Small Business Committee, and Chairwoman of the Energy and Natural Resources Committee, she became known as a tireless advocate for her home state of Louisiana. Mary is now a Senior Policy Advisor for Van Ness Feldman, located in Washington, DC. She serves on several corporate and non-profit boards, including CenturyLink, Inc., The National Court Appointed Special Advocate Association, the National Association of Public Charter Schools, and the United States Energy Security Council. Mary is a graduate of Louisiana State University and a native of New Orleans, Louisiana. She has been married to Frank Snellings for 28 years. They have two children and one grandchild. They currently reside in Washington, DC

Marvin Odum

Former President, Shell Oil Company

Marvin Odum served as the Chairman and President of Shell Oil Company until April 1, 2016 and, concurrently, Director/Executive Committee of Royal Dutch Shell PLC from July 1, 2009, during a period of unprecedented growth for the company. He joined Shell as an engineer in 1982 and held a variety of management positions in technical and commercial operations across multiple business areas, including Chief Executive Officer at InterGen, Inc; Executive Vice President for Exploration and Productions in the Americas; and Director of Americas Shell Gas and Power. Marvin is a member of the Council on Foreign Relations; Board member of the National Urban League; Dean's Council member of the Harvard Kennedy School of Government; Executive Committee member of the World Business Council for Sustainable Development; and Board of Visitors member of both the University of Houston and the MD Anderson Cancer Center University Cancer Foundation. He earned an MBA from the University of Houston, and a BS in Mechanical Engineering from the University of Texas. Since leaving Shell, Marvin has started two companies in water remediation and various chemical technologies.

PARTICIPANTS

William Arnold

Professor, Practice of Energy Management, Rice University

Bill's career began in international banking focused on Latin America. He later held a White House appointment to the Export Import Bank, where he led 4 divisions and was liaison officer with the World Bank, IMF, and Paris Club. He spent 16 years at Royal Dutch Shell where he headed International Government Relations in Washington and was Senior Counsel for the Middle East, North Africa, and Latin America. After retiring from Shell in 2009 he joined the full-time faculty at Rice where he teaches Geopolitics of Energy, Managing Energy Transitions, and Entrepreneurship in International Energy. He is concurrently Professor in Residence for the Association of International Petroleum Negotiators, and a Fellow with the Windsor Energy Group in the UK. He served in the US Army at home (Raven Rock) and overseas. He studied at Cornell University (BA), Universitiet van Amsterdam, and the University of Texas at Austin (MA, MBA). He enjoys fly fishing, photography, swimming, reading, music, and cycling with his wife, Cathy.

Vicky Bailey

Principal, Anderson Stratton Enterprises LLC

Vicky Bailey is Principal, Anderson Stratton Enterprises LLC, and prior owner of BHMM Energy Services, LLC, a certified minority owned energy facilities management company. She was appointed to the US Department of Energy in 2001, as Assistant Secretary for both the Office of Domestic Policy and International Affairs under President George W. Bush. In the aftermath of Sept. 11th, she was chair of several bilateral international working groups with the goal of implementing our national energy policy and strengthening our relationships with other nations to foster energy security. Also, in this role, she served as Vice Chair, International Energy Agency in Paris, working with all the energy producing nations. Ms. Bailey oversaw the development and implementation of domestic energy policy in the areas of clean coal technologies, nuclear power, oil and natural gas, and LNG production. Ms. Bailey is a distinguished alumna of the Krannert School of Management, Purdue University and graduated from the Advanced Management Program, The Wharton School, University of Pennsylvania. In 2013 to the present, Ms. Bailey became the first female Chairman of the Board, United States Energy Association.

Peter Blair

Executive Director, Division on Engineering & Physical Sciences, National Academy of Sciences

Peter Blair is the Executive Director of the Division on Engineering and Physical Sciences. Previously, he was executive director of Sigma Xi, the Scientific Research Society and publisher of American Scientist. He was assistant director of the of the Congressional Office of Technology Assessment and director of its Division of Industry, Commerce, and International Security and OTA's energy policy and research program manager. Dr. Blair was cofounder and principal of Technecon Analytic Research, Inc. Dr. Blair is a fellow of the American Association for the Advancement of Science and chaired its section on Societal Impacts of Science and Engineering. Dr. Blair holds a BS in engineering from Swarthmore College, and graduate degrees from the University of Pennsylvania: an MSE in systems engineering, and MS and PhD in energy management and policy.

Jason Bordoff**Professor & Founding Director, Center on Global Energy Policy, Columbia University**

Jason Bordoff joined the Columbia faculty after serving until January 2013 as Special Assistant to the President and Senior Director for Energy and Climate Change on the Staff of the National Security Council, and held senior policy positions on the White House's National Economic Council and Council on Environmental Quality. One of the world's top energy policy experts, he joined the Administration in April 2009. At Columbia's School of International and Public Affairs, Jason is a professor of professional practice and serves as founding Director of SIPA's Center on Global Energy Policy. Prior to joining the White House, Jason was the Policy Director of the Hamilton Project at the Brookings Institution. Jason graduated with honors from Harvard Law School, holds an MLitt degree from Oxford University where he studied as a Marshall Scholar, and a BA magna cum laude and Phi Beta Kappa from Brown University.

E. Rusty Braziel**President & CEO, RBN Energy, LLC**

E. Russell ("Rusty") Braziel is President and CEO of RBN Energy, LLC in Houston, an energy markets consultancy and is author of *The Domino Effect*. He spent 20 years with Texaco (Chevron), serving as Vice President of Natural Gas Marketing and Trading and Manager of NGL Supply. Subsequently he was Vice President of Business Development for The Williams Companies, and co-owner of Bentek Energy. He is currently a member of the Board of Directors of Align Midstream Partners and the North American Energy Standards Board.

Mark Brownstein**Vice President, Climate & Energy Program, Environmental Defense Fund**

Mark Brownstein is a Vice President of the Climate and Energy Program at Environmental Defense Fund. Mark leads EDF's work on the oil and gas industry with particular focus on methane emissions and the risks to public health and environment associated with unconventional oil and gas development. Prior to joining EDF, Mark held a variety of business strategy and environmental management positions within Public Service Enterprise Group. Mark's career includes time as an attorney in private environmental practice, an air quality regulator with the New Jersey Department of Environmental Protection, and an aide to a member of the US House of Representatives. Mark is an adjunct professor of law at NYU Law School where he co-teaches a seminar on public policy and energy project finance. Mark holds a JD from the University of Michigan Law School, and a BA from Vassar College.

Sharon Burke**Senior Advisor, International Security Program, New America Foundation**

The Honorable Sharon E. Burke is a senior advisor to New America, where she focuses on international security and a new program, Resource Security, which examines the intersection of security, prosperity, and natural resources. Before joining New America, Burke served in the Obama Administration as the assistant secretary of defense for operational energy, a new office that worked to improve the energy security of US military operations. Prior to her service at DoD, Burke held a number of senior US government positions, including at the Department of State in the George W. Bush Administration, and was a vice president and senior fellow at the Center for a New American Security. She attended Williams College and Columbia University, where she was a Zuckerman and International fellow at the School of International and Public Affairs.

Galen Cobb**Vice President, Industry Relations, Halliburton**

Galen Cobb is vice president of industry relations for Halliburton and is responsible for the company's industry relations global activities. He has worked for Halliburton for over 42 years serving in various executive management positions in operations, marketing, sales and business development. From 1991 to 1994, he was Director CIS and China with oversight in establishing Halliburton's presence and operations in these emerging markets. In his current position, Mr. Cobb's broad responsibilities include managing the company's industry relations, energy trade policy issues, executive client relations, and trade organization oversight. Galen is a graduate of Oklahoma Christian University, 1974

Cal Cooper**Director, Special Projects & Emerging Technology, Apache Corporation**

Cal Cooper is Director of Special Projects & Emerging Technology for Apache Corporation. His group focuses on leveraging and applying the latest technological innovations to improve performance and reduce E & P costs. He is especially proud of enabling projects that deliver significant environmental benefits at lower cost. Under his leadership, Apache has become the industry pacesetter using produced water recycling technology and alternative water sourcing with significant financial and operational benefits. His group supports external research and development initiatives, technology investments and major collaborative partnerships. He represents Apache and the industry with expert testimony for the US Congress, the Texas House of Representatives and other state and federal agencies.

James Costan**Partner, Dentons LLP**

Jay Costan is a partner in Dentons' Global Energy practice. He represents clients on a wide range of public utility and energy matters, including energy transactions and federal and state regulation of the sale and transmission of electricity, natural gas and LNG and the licensing of new energy projects and infrastructure. He has extensive experience in licensing new gas pipeline and storage projects before the Federal Energy Regulatory Commission, as well as representing clients before the US Department of the Interior, the US Department of Energy and the United States Courts of Appeals. He published an article earlier this year on issues confronting the FERC in licensing new gas infrastructure projects in the face of stubborn opposition by environmental groups: "FERC's Pipeline Review Process Is Working as Intended," Energy Law 360 (February 2017).

Christi Craddick**Chairman, Railroad Commission of Texas**

Christi Craddick was elected statewide by the people of Texas in November 2012 to serve a 6-year term as Texas Railroad Commissioner. A native of Midland, Christi is an attorney specializing in oil and gas, water, tax issues, electric deregulation and environmental policy. Craddick formerly served as president of a grassroots advocacy firm specializing in coalition building in the public policy arena and development and implementation of issue strategies. Craddick served as the chief political and legal advisor to the Speaker of the Texas House of Representatives Tom Craddick, clerked at the law firm of Jackson Walker, L.L.P., and worked in the legal department of the Railroad Commission of Texas and at the Third Court of Appeals. Christi earned her Bachelor's Degree as a Plan II graduate and her Doctorate of Jurisprudence from The University of Texas at Austin.

Trisha Curtis**President and Co-Founder, Petro Nerds**

Trisha Curtis is the President and Co-Founder of PetroNerds, LLC. She was formerly the Director of Research, Upstream and Midstream, at the Energy Policy Research Foundation, Inc. At PetroNerds, Ms. Curtis evaluates US upstream assets on a wells-up basis, assessing the viability of midstream and downstream projects, and studying global markets in order to assess the impact of shale production and lower oil prices on the international oil market. She spearheaded EPRINC's projects with Department of Energy for the Quadrennial Energy Review, evaluating future North American crude oil production volumes and midstream transportation options through 2030. Her work for Department of Defense focuses on China and international economics. Ms. Curtis is a research associate at the Oxford Institute for Energy Studies and a non-resident fellow at the Energy Policy Research Foundation, Inc.

Ankit Desai**Senior Advisor to the CEO, Tellurian Inc.**

Ankit has been with Tellurian Inc since March 2017. Before joining Tellurian, he served as Vice President, Government Affairs of Cheniere Energy, Inc. Prior to Cheniere, he served as Senior Vice President for MWW Group. Ankit spent four years as managing director at Third Security, a life science venture capital firm, based in Virginia, where he managed marketing, corporate communications and public relations. He was a lead fundraiser for Governor Mark Warner's Forward Together PAC. Ankit has held an array of roles in Senate offices and campaigns for Joseph Biden, John Kerry, Frank Lautenberg and Robert Torricelli. He received a BS in Applied Economics and a minor in Business from Florida State University. Ankit is on the Board of Directors of the Atlantic Council and the Board of Trustees of the Virginia Museum of Fine Arts.

Dan Domeracki**Vice President Government, Industry & Global Stewardship, Schlumberger**

Dan Domeracki is Vice President Government, Industry and Global Stewardship for Schlumberger Limited. Prior to his current role, he held several management positions including Vice President Global Accounts; Vice President Marketing and Technology for the Reservoir Management Group based in London and Vice President of Marketing, Well Services worldwide in Houston. During his career with Schlumberger, Domeracki has served on several task groups to look at technology development and corporate organizational evolution. Domeracki holds Bachelors and Masters degrees in geology from the University of South Carolina.

Mike Farber**Partner, Van Ness Feldman**

Michael Farber leads internal investigations, provides strategic advice, and conducts compliance reviews for companies in energy and other sectors. Mike represents companies conducting offshore oil and gas operations on a variety of matters, including regulatory reform initiatives and compliance activities. Since leaving his position as a Senior Advisor to the Director of the Bureau of Safety and Environmental Enforcement at the US Department of the Interior, by frequently writing and presenting on a variety of topics, Mike has established himself as a thought leader on federal oversight of offshore oil and gas operations. Drawing upon his experience both in private practice and at the US Department of Justice, Mike also represents clients in federal and state antitrust investigations, complex litigation, and intricate compliance matters.

Alex Flint**Executive Director, Alliance for Market Solutions**

Mr. Flint joined AMS as Executive Director in May 2017. He previously served as staff director of the US Senate Committee on Energy and Natural Resources, Senior Vice President of Governmental Affairs at the Nuclear Energy Institute, and as a member of President Trump's transition team.

Doug Fordyce**Managing Director, Lazard**

Doug Fordyce joined Lazard in April 2004 and is a Managing Director in the Banking Group. He is based in Lazard's Houston office. Prior to joining Lazard, Doug spent eight years at Donaldson, Lufkin & Jenrette and its successor, Credit Suisse First Boston in Texas. Doug advises energy clients in mergers and acquisitions, corporate governance matters and in restructurings and liability management transactions. Duke University, A.B. in English and Political Science; University of Virginia, The Darden School, M.B.A, Faculty Award for Excellence.

Herman Franssen**President, IEA Inc.**

Herman T. Franssen is executive director of the Energy Intelligence Group and president of International Energy Associates Inc., an energy advisory group in Washington, DC. He is a senior associate with the Center for Strategic and International Studies and an adjunct scholar with the Middle East Institute; an associate of GDP Associates in New York; a senior associate with Middle East Consultants and a visiting fellow with the Centre for Global Energy Studies in London; and a member of the Winsor Group. He was also Chief Economist for the IEA, Director of the Office of International Market Analysis at the US Department of Energy, and Senior Scientist CRS at the Library of Congress. Herman was born and educated through Secondary School in The Netherlands. He has a MA, MALD, and PhD in International Economics from the Fletcher School of Law and Diplomacy in Medford, Mass.

Evan Fuery**Vice President Political & Public Affairs, Statoil**

Head of Washington DC office for Statoil in the US. Previous roles in business development, strategy and security.

Paula Gant**Former Principal Deputy Assistant Secretary, Department of Energy**

Dr. Paula Gant served as the Principal Deputy Assistant Secretary for International Affairs at the US Department of Energy. She was responsible for bilateral and multilateral engagements with partner countries to apply the Department's capabilities in science, technology and markets in pursuit of US national security objectives. She previously worked for the American Gas Association and Duke Energy, and served on the faculties of Louisiana State University and the University of Louisville. A native of Louisiana, she received a BA in Economics from McNeese State University and a PhD in Economics from Auburn University.

Meg Gentle**President & CEO, Tellurian Inc.**

Meg joined Tellurian as President and CEO in August 2016. She previously served as Executive Vice President-Marketing at Cheniere Energy, Inc. Before Cheniere, Meg spent eight years in energy market development, economic evaluation and long-range planning. She conducted international business development and strategic planning for Anadarko Petroleum Corporation, and energy market analysis for Pace Global Energy Services. Meg received a BA in Economics and International Affairs from James Madison University in May 1996 and an MBA from Rice University in May 2004.

Greg Gershuny**Managing Director & James E. Rogers Energy Fellow, Energy and Environment Program, The Aspen Institute**

Greg Gershuny is Managing Director and the James E. Rogers Energy Fellow for the Aspen Institute Energy and Environment Program. Greg's work includes the Annual Energy Policy Forum, the Forum on Global Energy Economy and Security, and the Clean Energy Forum. Prior to joining the Aspen Institute, Greg served as the Associate Director for the Office of Energy Policy and Systems Analysis at the US DOE, as well as Chief of Staff to Director of EPSA from 2013 to 2015. From 2011 to 2013, Greg served as the Director of Energy and Environment at the White House Office of Presidential Personnel where he oversaw the Presidential appointment process for the energy and environment agencies as well as several White House Offices and a dozen boards and commissions. Greg also served as Confidential Assistant to the Associate Director for Science and Nobel Laureate Carl Wieman at the White House OSTP, where he worked on basic science R&D issues and science, technology, engineering, and math education, and as an Associate for the White House National Economic Council.

Niel Golightly**Vice President, Energy Transition Strategy, Shell Oil Company**

Niel Golightly is Vice President, Energy Transition Strategy for Shell Oil Company. His current focus is on scenarios for the energy transition in the US and Shell's strategies for responding to them. Niel joined Shell in 2006 from Ford Motor Company. Before joining Ford, Niel served on active duty with the US Navy, first as a fighter pilot then as a Pentagon speechwriter for General Colin Powell. Niel received a bachelor's degree in liberal arts from Cornell University in the US and later studied at the University of Konstanz in Germany as a Navy Olmsted Scholar. He is married with two children.

Sherri Goodman**Senior Fellow, Woodrow Wilson International Center for Scholars**

Sherri Goodman is an executive, lawyer, former defense official and Senate Armed Services Committee staff professional. Her work and professional interest are at the nexus of national security and energy and environmental security. She is currently a Senior Fellow at CNA and the Woodrow Wilson International Center for Scholars. She is the founder and Executive Director of the CNA Military Advisory Board, whose landmark reports include *National Security and the Threat of Climate Change* (2007), *Powering America's Economy: Energy Innovation at the Crossroads of National Security Challenges* (2010) and *Advanced Energy and US National Security* (2017) among others. Goodman served as the first Deputy Undersecretary of Defense (Environmental Security). A graduate of Amherst College, she has degrees from Harvard Law School and the Kennedy School of Government.

Dave Grossman (*Rapporteur*)**Principal, Green Light Group**

Dave Grossman is the principal of Green Light Group, a consulting practice specializing in research, analysis, writing, and strategy on sustainability issues, with a particular focus on climate change and clean energy. In his consulting, Dave has helped numerous clients – including non-profits, philanthropic foundations, trade associations, corporations, and intergovernmental organizations – transform complex concepts and processes into logical, organized, and clear results. Prior to founding Green Light in 2006, he managed projects for the International Network for Environmental Compliance and Enforcement, worked on the 2004 presidential campaign, served as a law clerk for the Chief Justice of the Alaska Supreme Court, and was a grassroots organizer on endangered species and fisheries issues with the National Audubon Society. In addition to numerous reports and other publications produced through his consulting, Dave has also published on topics such as the feasibility of tort-based climate change litigation and theories of why states and firms comply with law. He graduated summa cum laude from Princeton University with a degree in Politics and received his law degree from Yale Law School.

Antoine Halff**Fellow, Center on Global Energy Policy, Columbia University**

Antoine Halff is a senior research scholar at the Center on Global Energy Policy at Columbia University, where he heads the oil market program, and a founding partner of Kayrros, a data analytics company dedicated to the oil and gas sector. Earlier he was chief oil analyst at the International Energy Agency, Lead Industry Analyst at the US Energy Information Administration and head of commodities research at Newedge, the brokerage arm of Societe Generale, among other positions. He is the coauthor of *Energy Poverty* (Oxford University Press, 2014).

Evan Harrje**Government Affairs Advisor, Aramco Services Company**

Evan is a Government Affairs Advisor in the Washington Office of the Aramco Services Company – the US subsidiary of Saudi Aramco. His primary role is analyzing US energy, environmental and economic policy and geo-strategic developments – with particular focus on oil market impacts. Evan manages relationships with US government agencies and energy-related institutions. He has extensive expertise in developing and implementing strategies related to government affairs, political risk management and corporate messaging. Before joining Aramco in December 2003, Evan was Director of Energy Research at Washington Policy & Analysis – an international energy consulting firm. Evan holds an MA in International Relations and Economics from The Johns Hopkins University School of Advanced International Studies and a BA in International Relations from American University.

David Hawkins**Director, Climate Programs, Natural Resources Defense Council**

David G. Hawkins joined the Natural Resources Defense Council's Washington, DC office in 1971 as one of the first staff members and became Director of NRDC Climate Programs in 2011. Mr. Hawkins served as EPA's Assistant Administrator for Air, Noise, and Radiation, as Director of NRDC's Air and Energy Program, and Director of NRDC's Climate Center. Mr. Hawkins participated in the Intergovernmental Panel on Climate Change's Special Report on Carbon Dioxide Capture and Storage and in the IPCC's Fourth Assessment Report on climate change. He graduated from Columbia University Law School in 1970. Mr. Hawkins is married with three children and lives in Connecticut.

Bill Hederman**Senior Fellow, Kleinman Center for Energy Policy, University of Pennsylvania**

William F. Hederman served as Senior Advisor to US Secretary of Energy Ernest Moniz on US DOE missions to Ukraine, the Baltics, and Germany. In this position, he was the chief architect for the analytic framework developed for DOE's groundbreaking Quadrennial Energy Review. Hederman began his professional career as a systems integration engineer at Bell Labs in the directorate that later developed the cell phone system. Hederman holds engineering degrees from the Massachusetts Institute of Technology and the University of Notre Dame, and a professional degree (MPP) from the University of California at Berkeley.

Doug Hollett**Acting Assistant Secretary, Office of Fossil Energy, US Department of Energy**

Doug Hollett is Acting Assistant Secretary in the Office of Fossil Energy. His portfolio includes R&D and programs in Clean Coal and Carbon Management, Oil and Natural Gas systems, LNG export authorizations, the US Strategic Petroleum Reserve, international partnerships and inter-agency collaborations within the US government. His background includes exploration, production operations, business development and acquisitions. Doug holds a BA in Geology with a minor in Music from Williams College, and a MS in Geology from the University of Utah.

Amy Myers Jaffe**Executive Director for Energy and Sustainability, University of California, Davis**

Amy Myers Jaffe is a global energy expert whose research focuses on oil and gas geopolitics, energy economics, alternative fuels, and the impact of technology transformation on the global energy sector. She is executive director for energy and sustainability at the Institute of Transportation Studies at University of California Davis.

Miguel Jáuregui Rojas**Chairman, Jáuregui y Del Valle**

Mr. Jáuregui's main areas of Legal Practice include mergers and acquisitions, energy, infrastructure and securities. He is a member of the Boards of several Institutions, such as, the Mexican Academy of International Law, The International Academy of Estate and Trust Law, the Universidad Panamericana, the Franz Mayer Museum, YPO Gold and the Chief Executives' Organization. Mr. Jáuregui is an Officer of the Most Excellent Order of the British Empire.

James Jeffrey**Philip Solondz Distinguished Fellow, Washington Institute for Near East Policy**

Ambassador James F. Jeffrey retired from the Foreign Service with the rank of Career Ambassador in 2012. At present he is the Philip Solondz Distinguished Visiting Fellow at The Washington Institute for Near East Policy, a Visiting Instructor at George Washington University, energy consultant, and member of the Secretary of Defense's Defense Policy Board. Ambassador. Prior to his service as Ambassador in Ankara and Baghdad he served as Assistant to the President and Deputy National Security Advisor in the George W. Bush Administration. A former infantry officer in the US Army, Ambassador Jeffrey served in Germany and Vietnam from 1969 to 1976. His wife Gudrun and he have two children, Julia, and Jahn.

Thomas Jorden

Chairman, CEO & President, Cimarex Energy Co.

Thomas E. Jorden was named President and Chief Executive Officer of Cimarex in September 2011 and Chairman of the Board in August 2012. Mr. Jorden previously served as Executive Vice President of Exploration since the formation of Cimarex in December 2003 and held that same position at Key Production Company, Inc., Cimarex's predecessor. He joined Key in November 1993 as Chief Geophysicist and later as Vice President of Exploration. Prior to joining Key, Mr. Jorden was with Union Pacific Resources and Superior Oil Company. He is a graduate of the Colorado School of Mines where he earned BS and MS degrees in Geophysics.

Lady Barbara Judge, CBE

Former Chairman, U.K. Atomic Energy Authority; Member of Strategic Advisory Council, Statoil ASA

Lady Barbara Judge, CBE, is a qualified lawyer with both US and British citizenship. She was appointed a Director of the U.K. Atomic Energy Authority in 2002 and served as its Chairman from 2004 to 2010. She is currently Deputy Chairman of the Tepco Nuclear Reform Monitoring Committee and Chairman of its Nuclear Safety Task Force. In addition she is a member of the UK Nuclear Development Forum and Chairman of The Energy Institute of University College London. She is a member of the Strategic Advisory Council for Statoil ASA and a former independent non-executive director of the Board. Previously she was a Commissioner of the US Securities and Exchange Commission. In June 2010 she was awarded Commander of the British Empire for services to the nuclear and financial services industries. In May 2015, she was elected the first woman chairman of the UK Institute of Directors.

Joe Lima

Director of Global Environmental Sustainability, Schlumberger

Joe Lima is the Director of Global Environmental Sustainability for Schlumberger. Before this role, Joe served as Global Environmental Solutions Manager for Schlumberger Well Services where he was responsible for developing technologies that reduce the overall completion footprint as well as the development of the Schlumberger chemical disclosure process. From 2008 through 2010, Lima served as the Unconventional Resources Theme Manager for North America where he was responsible for directing technology development and application throughout the region specifically for shale and tight gas environments. He holds a BS degree in Petroleum Engineering from Marietta College, Marietta, OH.

Amory Lovins

Co-founder & Chief Scientist, Rocky Mountain Institute

Physicist Amory Lovins is cofounder, Chief Scientist, and Chairman Emeritus of Rocky Mountain Institute; advisor to major firms and governments worldwide on advanced energy efficiency; author of 31 books and 600 papers. An honorary architect, Swedish engineering academician, and former Oxford don, he has taught at ten universities. He is an advisor to the Chief of Naval Operations and a member of the National Petroleum Council. In 2009, Time named him one of the world's 100 most influential people, and Foreign Policy, one of the 100 top global thinkers. In 2016, the President of Germany awarded him the Officer's Cross of the Order of Merit.

Mark Lundstrom
CEO, Radia, Inc.

Mark is a serial cross-industry entrepreneur, having co-founded companies in material science, satellite communications, software, bioscience, energy/environment, and aerospace. Recently, Mark founded and is CEO of Radia, Inc. Radia provides innovative solutions at the interface of environment, energy, aerospace. Previously, Mark founded BioScale, which is transforming chronic disease management through novel bioclinical analytics and digital health technologies, and Active Control eXperts, Inc. which made piezoelectric systems to control vibrations. Mark also founded wireless software provider Ripcord Systems (SoftBank). Mark earned his Economics MPhil from Oxford, as a Rhodes Scholar, and an MBA from MIT's Sloan School as a Leaders for Manufacturing Fellow. He earned BS/MS in Aero/Astro from MIT. He is a 2013 Henry Crown Fellow and a member of the Aspen Global Leadership Network.

Jan Mares
Senior Policy Advisor, Resources for the Future

Mr. Mares became a Senior Policy Advisor with Resources for the Future in May 2009. He was Deputy Director of the Private Sector Office of the Department of Homeland Security which promotes, encourages and monitors collaborative relations between the private sector. During the Reagan Administration Mr. Mares was an Assistant Secretary of Commerce for Import Administration, and a Senior Policy Analyst at the White House. Mr. Mares also served as Assistant Secretary of Energy for International Affairs and Energy Emergencies, Assistant Secretary of Energy for Policy, Safety and Environment, and Assistant Secretary of Energy for Fossil Energy. He has also worked in a law firm, trade association and energy and budget consulting firm. He has a BA in chemistry from Harvard, MS in chemical engineering from MIT and LLB from Harvard.

Arshad Matin
President & CEO, Paradigm

Arshad Matin is President and CEO and serves as a member of the Board of Directors for Paradigm. As CEO, Mr. Matin manages all aspects of the company's strategy development and implementation. This includes delivering on the company's promise to give upstream clients deeper insight into the subsurface through scientifically based software and services extending across the full range of oilfield exploration and production. He brings several years of experience managing public and private high technology companies. Matin holds an MBA in Finance from the University of Pennsylvania - The Wharton School, an MSE degree in Computer Engineering from The University of Texas at Austin and a BE degree in Electrical Engineering from National Institute of Technology, India.

Nancy Meyer**Director, Climate Strategy, IHS Markit**

Nancy Meyer, Director, IHS Markit, conducts research on environmental and sustainability issues affecting the energy sector and is a lead researcher for the IHS Markit Climate and Carbon Service with a focus on US federal and state climate policy. Ms. Meyer's expertise covers a breadth of issues related to energy and the environment that spans oil, gas, power and automotive sectors. Her research has covered topics such as the environmental impacts of upstream oil and gas development including methane emissions and flaring, fuel economy standards, and carbon pricing. Ms. Meyer graduated summa cum laude from the University of Indianapolis with a BA in international business. She also holds an MPA from Indiana University School of Public and Environmental Affairs with concentrations in policy analysis, economic development, and public financial administration.

David Monsma (*Moderator*)**Executive Director, Energy and Environment Program, The Aspen Institute**

David Monsma is executive director of the Aspen Institute's Energy and Environment Program. The Institute's Energy and Environment Program convenes several annual policy forums and roundtables including The Aspen Institute Energy Policy Forum; the Global Forum on Energy, Economy and Security; and the Clean Energy Innovation Forum; the Aspen-Nicholas Forum on Water Policy; and the Forum on the Future of Nuclear Energy. The program also convenes, and David moderates, policy-testing dialogues on wildlife and ocean conservation; food security; climate change; energy governance and the India-US, and the China-US, Track II Dialogue on Energy as well as the Aspen Institute's Executive Seminar. An attorney by training, David has over 20 years of experience in environmental law and policy. He taught law and ethics at Loyola University in Maryland and served as director of business and environment at Business for Social Responsibility in San Francisco. During the Clinton Administration, David was the environmental management task force coordinator for the President's Council on Sustainable Development (PCSD). David began his legal career as a program attorney in the Office of Toxic Substances and Pollution Prevention at the US Environmental Protection Agency headquarters in Washington, DC.

Richard Newell**President & CEO, Resources for the Future**

Dr. Richard G. Newell is the President and CEO of Resources for the Future, an independent nonprofit that improves environmental, energy, and natural resource decision making through rigorous economic research and analysis. Dr. Newell is an adjunct professor at Duke University, where he was Professor of Energy and Environmental Economics and Founding Director of its Energy Initiative. He is a research associate of the National Bureau of Economic Research and a member of the National Petroleum Council, advisory boards of the National Academy of Sciences, and several other institutions. Dr. Newell holds a PhD from Harvard University and an MPA from Princeton's Woodrow Wilson School of Public and International Affairs.

Bob Nussmeier**Vice President, Business Development, Kiewit Energy Group Inc.**

Bob Nussmeier is an Officer and Vice President for Business Development with Kiewit Energy Group Inc. With more than 23 years of experience, Bob is a strong catalyst in connecting oil, gas and petrochemical companies with Kiewit's construction professionals, resulting in world-class, high-performing facilities that are safe, efficient, cost-effective and environmentally responsible. Bob's expertise, professionalism and enthusiasm ensure that clients and contractors reach mutually beneficial terms for major projects. Bob graduated from Purdue University in West Lafayette, Indiana, with a Bachelor's Degree in Construction Management.

Heather Palmer**Partner, Bracewell, LLP**

Heather Palmer offers clients in-depth environmental regulatory knowledge and experience in energy-related environmental issues. She helps energy, petrochemical and pipeline companies and clients in the power and utility sector that are seeking guidance on environmental compliance and the allocation of environmental liabilities in mergers and acquisitions. She also plays a major role in advising clients on the environmental issues surrounding shale play development, hydraulic fracturing and the permitting, construction and operation of liquefied natural gas (LNG) import/export facilities in the US

Jean-François Poupeau**Executive Vice President Corporate Engagement, Schlumberger**

Mr. Poupeau leads Schlumberger's Corporate Engagement initiatives including corporate planning, development, engagement, global stewardship and communications functions. Over the last four years he has also led the company's Global Transformation program. Mr. Poupeau joined Schlumberger in 1985 as a wireline field engineer in the Gulf of Mexico. He has held operational and management leadership positions in North America, Indonesia, Thailand, Nigeria, Angola, France and China. He holds a BS degree in geology and a MS degree in petroleum engineering from Tulane University.

Jay Pryor**Vice President, Corporate Business Development, Chevron Corporation**

Jay R. Pryor is vice president of Business Development for Chevron Corporation. He is responsible for identifying and developing new, large-scale upstream and downstream business opportunities, including mergers and acquisitions. Previously Pryor was managing director of Chevron Nigeria Ltd. from 2002 to 2006 and was responsible for directing Chevron's oil and gas operations in West Africa. Pryor joined Chevron in 1979 as a petroleum engineer. He earned a bachelor's degree in petroleum engineering from Mississippi State University in 1979.

Lucian Pugliaresi**President, Energy Policy Research Foundation, Inc**

Lucian (Lou) Pugliaresi is president of the Energy Policy Research Foundation Inc., a not-for-profit organization formed in 1944 that studies energy economics and policy issues with special emphasis on oil, natural gas, and petroleum product markets. Lucian has served in a wide range of government posts, including the National Security Council at the White House (Reagan Administration), Departments of State, Energy, and Interior, as well as the Environmental Protection Agency. He has testified before various committees of the US Congress and has published extensively on various aspects of petroleum policy.

Robert Rasmus**CEO, Hi-Crush Proppants LLC**

Mr. Rasmus is a co-founder and CEO of Hi-Crush Proppants LLC. Mr. Rasmus was a founding member of Red Oak Capital Management LLC in June 2002 and has served as Managing Director since inception. ROCM's business model centered on partnering with the largest oil services companies in unconventional basins in the United States. Prior to the founding of ROCM, Mr. Rasmus was the President of Thunderbolt Capital Corp., a venture firm focused on start-up and early stage private equity investments. Mr. Rasmus holds a BA in Government and International Relations from the University of Notre Dame.

Steve Recca**Executive Director, Center for Human Security, University of Colorado-Colorado Springs**

Steve Recca is Executive Director of the Center for Human Security in the University of Colorado Colorado Springs School of Public Affairs. He concurrently serves as the Co-Director of the University and Agency Partnership Initiative for the Naval Postgraduate School Center for Homeland Defense and Security and as the Humanitarian Assistance Program Advisor with the Pacific Disaster Center. Steve's previous positions include security policy assignments with the State Department, Department of Defense, Central Intelligence Agency, and in academia. Steve is the Managing Editor of the Journal of Human Security & Resilience, and is on the editorial review boards of three additional peer-reviewed journals: Homeland Security Affairs and Risk, Hazards & Crisis in Public Policy, and Journal of Homeland Security Education.

Mark Renton**Managing Director, Financial Advisory, Lazard**

Mr. Renton joined Lazard in early 2012 as a Managing Director, Financial Advisory, focused on international oil and gas clients. Mr. Renton worked at Citigroup, and its predecessor Salomon Brothers, for 25 years. Mr. Renton has advised major international oil and gas companies on mergers and acquisitions and strategic matters over the past two decades. Mr. Renton has been actively engaged in several restructuring assignments relating to oil and gas clients including Pacific Exploration, Vantage Drilling and others. Mr. Renton qualified as a Chartered Accountant in the United Kingdom with Arthur Andersen & Co.

Tom Roberts**Partner, Van Ness Feldman, LLP**

Tom has been a partner at Van Ness Feldman since 1995 after serving in positions at EPA and the US Senate. He specializes in legal, strategic and government relations advice to clients with energy, environmental and natural resource issues.

Matthew Rose**Executive Chairman, BNSF Railway Company**

Matt Rose is the executive chairman of BNSF Railway Company after having served as CEO and chairman. BNSF is one of North America's leading freight transportation companies operating on 32,500 route miles of track in 28 states and three Canadian provinces. BNSF is one of the top transporters of consumer goods, grain and agricultural products, low-sulfur coal, and industrial goods such as petroleum, chemicals, housing materials, food and beverages. Mr. Rose obtained his Bachelor of Science in marketing with a minor in logistics from the University of Missouri.

Cheryl Rosenblum**Executive Director, C.N.A. Military Advisory Board**

Executive Director of the CNA Military Advisory Board and CNA's Director of Strategic Development. CNA, a non-profit research and analysis organization, is dedicated to developing actionable solutions to national and global challenges. Cheryl is responsible for the overall direction of the CNA MAB, research quality, and mission. Before joining CNA, Rosenblum held positions at: LMI, working on infrastructure and alternative fuels analyses; David M Griffith, as a transportation consultant; and at the Department of the Interior analyzing the economic cost of oil spills.

K. Scott Roy**Senior Vice President, Range Resources**

K. Scott Roy joined Range in 2009 and currently serves as the Senior Vice President. He provides executive leadership for a staff that works to ensure the company's operations are environmentally safe and meeting or exceeding government regulations. A western Pennsylvania native, Scott earned his bachelor's degree from Allegheny College and his juris doctorate from the Dickinson School of Law at Penn State University.

Sarah Sandberg**COO, Colorado Oil and Gas Association**

Sarah Sandberg serves as the COO for the Colorado Oil & Gas Association, and is responsible for COGA's financial direction, day-to-day operations, events, programs, local regulatory engagement, and community outreaches. Sandberg serves as Conference Director for The Energy Summit, a prominent energy conference in the West. She received her bachelor's degree from the University of Colorado, Boulder and is currently completing her coursework within the Executive MBA at Denver University's Daniels School of Business.

Kyle Simpson**Senior Advisor, Hogan Lovells**

Kyle Simpson focuses on legislative and regulatory policy, business, and technology issues in the energy, environment, and natural resources industries. Since joining Hogan Lovells in 2010, Kyle has worked with companies to develop liquefied natural gas (LNG) export facilities, prevent implementation of regulations that would be detrimental to clients' businesses, and create new energy technologies. As Senior Advisor to the US Secretary of Energy, he developed and oversaw domestic and international energy policy.

Charif Souki**Chairman of the Board, Tellurian Inc.**

Charif co-founded Tellurian and serves as Chairman of the Board. He also founded Cheniere Energy, Inc. in 1996 and served as Chairman of the Board of Directors, Chief Executive Officer and President until December 2015. Prior to Cheniere, Charif was an investment banker. He serves on the board of trustees of the American University of Beirut and as a member of the Advisory Board of the Center on Global Energy Policy at Columbia University. Charif received a BA from Colgate University and an MBA from Columbia University.

Jim Teague**Director & CEO, Enterprise Products Partners L.P.**

On January 1, 2016 Mr. Teague was elected Chief Executive Officer of Enterprise Products Holdings LLC (Enterprise GP), the general partner of Enterprise Products Partners L.P. and has been a member of its Board of Directors since July 2008. Mr. Teague joined Enterprise in connection with its purchase of certain midstream energy assets from affiliates of Shell Oil Company in 1999. Mr. Teague is a retired Naval Officer and served in an attack helicopter squadron in Vietnam.

Michael Teague**Secretary of Energy and Environment, State of Oklahoma**

Michael Teague serves as Oklahoma's first Secretary of Energy and Environment. Appointed in 2013, he is responsible for coordinating over 30 state agencies, boards, compacts, and commissions in advancing policies that encourage energy production and environmental stewardship throughout Oklahoma. Prior to his appointment, Teague served in the US Army for nearly 30 years before retiring with the rank of Colonel. Teague received a bachelor's degree in Civil Engineering from Norwich University. He also received master's degrees in Operations Analysis from the Naval Postgraduate School and in National Security and Strategic Studies from the Naval War College.

Peter Trelenberg**Manager, Environmental Policy and Planning, ExxonMobil Corporation**

Peter Trelenberg received his Bachelor of Science degree in Civil and Environmental Engineering from the University of Wisconsin in 1980 and joined Exxon as a Project Engineer at the Bayway Chemical Plant in New Jersey. Pete has subsequently worked in a variety of project, planning and business development roles of increasing responsibility for the Corporation's Chemical businesses in the US and Asia; was a Senior Adviser at the Corporation's headquarters in Dallas; Refinery Manager at Torrance in California; and head of Planning and Business Development for ExxonMobil Chemical Company in Houston. He is married and has three children.

Michael Webber**Deputy Director & Professor, Energy Institute, The University of Texas at Austin**

As Deputy Director of the Energy Institute, Co-Director of the Clean Energy Incubator, Josey Centennial Fellow in Energy Resources, Author, and Professor of Mechanical Engineering, Dr. Michael E. Webber trains the next generation of energy leaders at the University of Texas at Austin and beyond through research and education at the convergence of engineering, policy, and commercialization. Michael holds a BS and BA from UT Austin, and MS and PhD in mechanical engineering from Stanford.

Jamie Webster**Senior Director, Center for Energy Impact, The Boston Consulting Group**

Jamie Webster, from BCG's Center for Energy Impact has been based in Washington DC for more than a decade where he has advised the White House, State Department and testified multiple times in front of Congress on energy issues.

Nicholas Welch**Director, International Government Relations and Communications, Noble Energy**

Nick Welch is Director of International Government Relations and Communications for Noble Energy. For 15 years Nick held a variety of senior global and regional roles with Royal Dutch Shell plc. Nick joined Shell after a number of years in the UK Government. Before joining government service he worked as a Regional Commercial Manager for a multinational brewing company and has also worked as a technical writer and teacher overseas, including a year teaching French officer cadets at the College Militaire de St Cyr in France.

Bill White**Chairman, Lazard**

Bill White joined Lazard in 2012 as Chairman, Lazard Houston, and Senior Advisor with a focus on energy. Prior to joining Lazard, Mr. White served as Mayor of Houston, 2004-2009. He served as Deputy Secretary of Energy of the United States, 1993-1995. Mr. White was CEO of WEDGE Group, which at the time was one of Texas' fastest growing energy-related businesses. Mr. White has served on the boards of numerous public companies. Mr. White is the author of the critically-acclaimed history book, America's Fiscal Constitution.

Cynthia Bergman White**Public and Government Affairs, ExxonMobil Corporation**

Cynthia Bergman White handles stakeholder engagement and outreach at ExxonMobil. She has been with the company since 2009, serving in a variety of roles including as the US Government Affairs Manager and as a corporate spokesperson. Prior to ExxonMobil, she worked in politics and government in Washington, DC and New York City. While in DC, she held public affairs posts at the White House, the Department of Homeland Security, the US Environmental Protection Agency and spent time on Capitol Hill working for two US senators.

Jeffrey Williams**Chairman, Alliance for Market Solutions**

After thirty five years as an investment banker, Mr. Williams joined in the initiative that was recently launched as the Alliance for Market Solutions, where he serves as Chairman.