

Amy Myers Jaffe

Managing Director, Climate Policy Lab
Research Professor
The Fletcher School
Tufts University

Current Research Projects

Digital Technology Innovation and Energy; Energy and Climate Risk in Global Credit Markets.

Education

Princeton University (1980) Bachelor of Arts, Near Eastern Studies and Arabic

Peer Review Journal Board Positions

Member, Editorial Board, *Energy Journal*

Member, Editorial Board, *Journal of Economics and Energy and Environmental Policy*

Associate Editor, North America, *Energy Strategy Reviews*

Guest Editor, *Energy Strategy Reviews*, Special Issue, Current and Emerging Strategies for U.S. Energy Independence, December 2014

Guest Editor, *Energy Policy*, Natural Gas in Sustainable Transportation in the U.S., September 2017

Guest Editor, *Journal of Economics and Energy and Environmental Policy*, The Oil Price Cycle and Geopolitics Forthcoming, In Press, June 2020

Books

[Energy's Digital Future: Harnessing Innovation for American Resilience and National Security](#), Columbia University Press, January 2021 (forthcoming)

Co-editor With Joshua Busby and co-author, Introduction and Chapters 1 and 5, [The Impact of Climate Risk on the Energy System](#), Council on Foreign Relations, 2019

[Oil, Dollars, Debt, and Crises: the Global Curse of Black Gold](#). Mahmoud El-Gamal and Amy Myers Jaffe. Cambridge University Press, January 2010.

Co-Editor and author of introduction and conclusion with David Victor, as well as co-author on chapter on Gas OPEC. Natural Gas and Geopolitics from 1970 to 2030. Cambridge University Press, June 2006.

Co-Editor, with Yelena Kalyuzhnova, Dov Lynch and Robin Sickles. Energy in the Caspian Region: Present and Future, MacMillan Palgrave, 2002.

Peer Review Articles

“The Ephemeral Brent Geopolitical Risk Premium” with Hany Abdel-Latif and Mahmoud El-Gamal, *Economics of Energy and Environmental Policy*, In Press, June 2020

“Geopolitics and the Oil Price Cycle – An Introduction,” *Economics of Energy and Environmental Policy*, In Press, June 2020

“Technologies, Innovation, and Stranded Oil and Gas Assets” *National Institute Economic Review*, February 2020

“Financial Herding Must Be Checked To Avert Climate Crashes” *Nature Energy*, February 2020

“Are Fossil Fuel Firms Informing Investors Well Enough About the Risks of Climate Change” Paul A. Griffin and Amy Myers Jaffe, *Journal of Energy & Natural Resources Law*, 2018

“The Coupled Cycles of Geopolitics and Oil Prices” Mahmoud A. El-Gamal and Amy Myers Jaffe. *Economics of Energy and Environmental Policy*, Vol. 7, No 2, 2018

“California Low Carbon Fuel Policies and Natural Gas Infrastructure: Synergies and Challenges to Expanding The Use of Renewable Natural Gas in Transportation, Daniel Scheitrum, Amy Myers Jaffe, Rosa Dominguez-Faus, Nathan Parker, *Energy Policy*, 2017

“Natural Gas as A Bridge to Hydrogen Transportation Fuel: Lessons from the Literature” Joan Ogden, Amy Myers Jaffe, Daniel Scheitrum, Zane McDonald, Marshall Miller, *Energy Policy*, 115: 2018

“The Role of the USA in the Geopolitics of Climate Policy and Stranded Oil Reserves” *Nature Energy*, Article No. 16158, Vol. 1, October 2016

Guest editor, “Potential of Natural Gas as a Pathway to Sustainable Transport” *Energy Policy*, January 2017

“Geospatial, temporal and economic analysis of alternative fuel infrastructure: The case of freight and U.S. natural gas markets” Yueyue Fan, Allen Lee, Nathan Parker, Daniel Scheitrum, Amy Myers Jaffe, Rosa Dominguez-Faus, and Kenneth Medlock, III, *Energy Journal*, January 2017

“War and the Oil Price Cycle” Amy Myers Jaffe and Jareer Elass, *Journal of International Affairs*, January 2016

“Science and the Stock Market, Investor’s Recognition of Unburnable Carbon,” Paul A. Griffin, David H. Lont, Amy Myers Jaffe, Rosa Dominguez-Faus, *Energy Economics*, December 2015

“Testing substitution between private and public storage in the U.S. oil market: A study on the U.S. Strategic Petroleum Reserve” Colin Carter, Amy Myers Jaffe, Daniel Scheitrum, *Energy Economics Special Issue, “Energy, Commodities, and Geopolitics: Modeling Issues,”* December 2015

Guest Editor, *Energy Strategy Reviews*, Special Issue, Current and Emerging Strategies for US Energy Independence, December 2014

“The Global Gas Market, LNG Exports and the Shifting US Geopolitical Presence,” Kenneth Medlock, Amy Myers Jaffe and Meghan O’Sullivan, *Energy Strategy Reviews*, December 2014

“New Alignments? The Geopolitics of Gas and Oil Cartels and the Changing Middle East.” Songying Fang, Amy Myers Jaffe and Tec Loch-Temzelides. *Journal of Economics of Energy and Environmental Policy*. Volume 3. Number 1. January 24, 2014.

“Increased Water Intensity of Corn Ethanol” Dominguez-Faus, Rosa, Folberth, Christian, Liu, Junguo, Jaffe, Amy M., and Alvarez, Pedro J. *Environ. Sci. Technol.*, 2013, 47 (11), pp 6030–6037

“Geopolitics of Energy.” *Encyclopedia of Energy*, Elsevier Academic Press, 2004, p. 843-857.

“The Role of Inventories in Oil Market Stability,” with Ronald Soligo. *The Quarterly Review of Economics and Finance*. Vol. 42, Issue 2, Summer 2002, pages 401-415.

“A Note on Saudi Price Discrimination” with Ronald Soligo. *Energy Journal*, Vol. 21 No. 1, Jan. 2000.

“The Impending Oil Shock: An Exchange,” with Michael T. Klare and Nader Elhefnawy. *Survival*. Vol. 50, No. 4, August-September 2008: 61-82.

“Energy Security: Meeting the Growing Challenge of National Oil Companies” with Matthew E. Chen. *The Whitehead Journal of Diplomacy and International Relations*, Vol. VIII, No. 2, Summer 2007: 9-21.

“Geopolitics of Energy.” Encyclopedia of Energy, Elsevier Academic Press, 2004, p. 843-857.

“The Role of Inventories in Oil Market Stability,” with Ronald Soligo. *The Quarterly Review of Economics and Finance*. Vol. 42, Issue 2, Summer 2002, pages 401-415.

“A Note on Saudi Price Discrimination” with Ronald Soligo. *Energy Journal*, Vol. 21 No. 1, Jan. 2000.

Book Chapters

Energy & Security: Foreign Policy Strategies for a World in Transition, 2nd ed. Jan H. Kalicki and David L. Goldwyn (eds.) Wilson Center Press and Johns Hopkins University Press, 2013. Chapters 5 and 13 contributor.

“OPEC – Can the Cartel Survive Another Fifty Years?” Chapter 5 Contributor with Edward L. Morse.

“China, India and Asian Energy” Chapter 13 Contributor with Kenneth Medlock
“Resource Nationalism and Oil Development: Profit or Perils” in Beyond the Resource Curse. eds. Brenda Shaffer and Taleh Ziyadov. University of Pennsylvania Press, 2012
Chapter contributor

“State-Backed Financing in Oil and Gas Projects.” Global Energy Governance: The New Rules of the Game, eds. Andreas Goldthau and Jan Martin Whitte. Brookings Institution Press, Washington, DC, 2010, p. 107 – 132. Chapter contributor with Ronald Soligo

“The Politicization of Markets: Implications for Conflict and Cooperation” *Energy Security in the Gulf: Challenges and Prospects*, The Emirates Center for Strategic Studies, 2010. Chapter contributor with Ronald Soligo

“Energy Balances and the Potential for Biofuels in Cuba.” *Cuba’s Energy Future*, ed. Jonathan Benjamin-Alvarado, Brookings Institution Press, Washington, DC, 2010, p. 80-110. Chapter contributor with Ronald Soligo

“OPEC: An anatomy of a cartel.” *Energy Security Challenges for the 21st Century*. Eds. Gal Luft and Anne Korin. Greenwood, 2009. Chapter contributor

“Energy security: the Russian connection.” Energy Security and Global Politics: The Militarization of Resource Management. Eds. Daniel Moran and James A. Russell. Abington, UK. 17 July 2008. Chapter contributor with Ronald Soligo

“Energy Security, Climate and Your Car: U.S. Energy Policy and Beyond.” Reducing Climate Impacts in the Transportation Sector. Eds. Daniel Sperling and James Cannon. Springer Press: December 8, 2008. Chapter contributor

“The United States and the International Energy Barrier.” A Strategy for American Power: Energy, Climate, and National Security. Eds. Sharon Burke and Christine Parthemore. Solarium Strategy Series, Center for a New American Security (CNAS), June 2008.

“Nanotechnology and Our Energy Challenge” with Wade Adams. Environmental Nanotechnology: Applications and Impacts of Nanomaterials. Eds. Mark R. Wiesner and Jean-Yves Bottero. McGraw Hill: New York, 2007.

“Market Structure in the New Gas Economy: Is Cartelization Possible?” with Ronald Soligo. In Natural Gas and Geopolitics from 1970 to 2030. Cambridge University Press, June 2006.

“Reducing Vulnerability of the Strait of Hormuz,” with Dagobert Brito. Getting Ready for a Nuclear-Ready Iran, U.S. Army War College, 2005.

"China and Northeast Asia," with Kenneth B. Medlock III. Energy and Security: Toward a New Foreign Policy Strategy, Eds. Jan H. Kalicki and David L. Goldwyn, Baltimore: The Johns Hopkins University Press, 2005: 267-291.

“OPEC in Confrontation with Globalization,” with Edward L. Morse. Energy and Security: Toward a New Foreign Policy Strategy, Eds. Jan H. Kalicki and David L. Goldwyn, Baltimore: The Johns Hopkins University Press, 2005: 65-96.

"The Present Status and Future Prospects of Energy in China" with Ronald Soligo and Kenneth B. Medlock III, Asian Energy Markets and Trends, 2004.

"Caspian Pipelines: Pipe Dream or Reality?" with Ronald Soligo. Energy in the Caspian Region: Present and Future, Eds. Amy Myers Jaffe, Yelna Kalyuzhnova, Dov Lynch and Robin Sickles, 2002.

“US policy towards the Caspian Region: can the wish-list be realized?” The Evolving Security Setting in the Caspian Sea Basin, Eds. Adam Daniel Rotfield and Gennady Chufirin, Oxford University Press, 2001.

“The Geopolitics of Caspian Energy” with Martha Brill Olcott. The Euro-Asian World: A Period of Transition, Eds. Yelena Kaluzhnova and Dov Lynch, MacMillan Press, London, 2000.

Other Select Publications

“Will Coronavirus Have Lasting Impact on Carbon Emissions” Bulletin of the Atomic Scientist,

“Emerging Petrostates are About to Meltdown” *Foreign Affairs*, April 2020

“Striking Oil Ain’t What It Used to Be” *Foreign Affairs*, January 20, 2020

“Internal Combustion Bans and Global Oil Use” Lew Fulton, Amy Myers Jaffe and Zane McDonald. Working paper, Institute for Transportation Studies, University of California, Davis, 2019

The Tech Enabled Energy Future: Transition by Design, Council on Foreign Relations, 2019

“Green Giant: Renewable Energy and Chinese Power” *Foreign Affairs*, 2018

“How Mini-Grids Can Power Disaster Recovery” *Foreign Affairs*, November 9, 2017

“The Feasibility of Renewable Natural Gas as a Large Scale, Low Carbon Substitute” Amy Myers Jaffe, Rosa Dominguez-Faus, Nathan Parker, Daniel Scheitrum, Justin Wilcock, Marshall Miller, Report to the California Air Resources Board, September 2016

“Changing Oil Market Fundamentals and the Implications for OPEC Production Strategy” Daniel Scheitrum, Amy Myers Jaffe and Lew Fulton, *IAEE Energy Forum*, 1516, Bergen Special Issue, 2016

“Nuclear Energy in the Middle East: Chimera or Solution?” Jim Crane, Amy Myers Jaffe and Jareer Ellass, Bulletin of Atomic Scientists, January 2016

“Exploring the Role of Natural Gas in U.S. Trucking,” Amy Myers Jaffe, Yue Yue Fan, Allen Lee, Nathan C. Parker, Rosa Dominguez-Faus, Daniel Scheitrum, Working Paper, ITS Davis, 2015

“Nuclear Energy in the Middle East: Chimera or Solution?” Jim Krane, Amy Myers Jaffe and Jareer Ellass, Bulletin of Atomic Scientists, January 2016

“Regional Turmoil and Realignment: Middle East Conflicts and the New Geopolitics of

Oil,” Amy Myers Jaffe, Jareer Ellass, 2015 Global Energy Forum, Wilson Center for Scholars, Autumn, 2015

“Oil Demand, Supply, and Medium-Term Price Prospects: A Wavelets-Based Analysis” with Mahmoud El-Gamal, Amy M. Jaffe, November 1, 2013, at <http://trid.trb.org/view.aspx?id=1262947>

“How the Shale Revolution Will Transform U.S. Policy” Chapter in “Asia’s LNG Uncertain Future”. The National Bureau of Asian Research. November, 2013.

“The Gulf Cooperation Council Natural Gas Conundrum: Geopolitics Drive Shortages Amid Plenty” with Jareer Ellass, The Geopolitics Energy Projects. Harvard- Belfer Center for Science and International Affairs. October 23, 2013

“The Arab Awakening and Oil: A Pending Oil Pinch?” with Keily Miller. *The Whitehead Journal of Diplomacy and International Relations*, January 1, 2012

“The Americas, Not the Middle East, Will be the World Capital of Energy.” The Future Issue, *Foreign Policy*, September/October 2011

“The Status of World Oil Reserves and Implications for the Gulf” with Kenneth B. Medlock III and Ronald Soligo. The Emirates Center for Strategic Studies and Research. June 2011.

“Shale Gas and U.S. National Security,” with Peter Hartley and Kenneth Medlock, James A. Baker III Institute for Public Policy, July 2011, US Department of Energy

“The Geopolitics of Natural Gas” with Meghan L. O’Sullivan. The Geopolitics Energy Projects. Harvard- Belfer Center for Science and International Affairs. July, 2012

“Subpriming the Pump,” with Mahmoud El-Gamal, The Oil Issue, *Foreign Policy*, September/October 2009

“The History and Politics of Russia’s Relations with OPEC,” with Jareer Ellass. Working Paper. Russia and the Caspian States in the Global Energy Balance. James A. Baker III Institute for Public Policy. May 6, 2009.

“The International Oil Companies,” with Ronald Soligo. Working Paper. The Role of National Oil Companies in International Energy Markets. James A. Baker III Institute for Public Policy, November 2007.

“Saudi Aramco: National Flagship with Global Responsibilities,” with Jareer Ellass. Working Paper. The Role of National Oil Companies in International Energy Markets. James A. Baker III Institute for Public Policy, March 2007.

“Iraq’s Oil Sector: Past, Present, and Future.” Working Paper. The Role of National Oil Companies in International Energy Markets. James A. Baker III Institute for Public Policy, March 2007.

“Geopolitical positioning in petroleum resources and Norway’s energy and foreign policy interests.” *Energipolitiske interesser og utfordringer*. Eds. Aina Holm and Henrik Thune. The Norwegian Ministry of Foreign Affairs, December 2007.

“The Persian Gulf and the Geopolitics of Oil,” with Joe Barnes. *Survival*, Volume 48, Issue 1, March 2006, pages 143–162.

“United States and the Middle East: Policies and Dilemmas.” *Ending the Energy Stalemate: A Bipartisan Strategy to Meet America’s Energy Challenges*. National Commission on Energy Policy. December 2004.

“Re-Evaluating U.S. Strategic Priorities in the Caspian Region: Balancing Energy Resource Initiatives with Terrorism Containment,” with Ronald Soligo. *Cambridge Review of International Affairs*. Vol. 17, Issue 2, July 2004. Routledge. pp.255-268.

“The Growing Developing Country Appetite for Oil and Natural Gas.” *Economic Perspectives*, Vol. 9, No. 2, May 2004.

“Potential Growth for U.S. Energy in Cuba” with Ronald Soligo, ASCE Volume 12 Proceedings, "Cuba in Transition," 2003.

“Energy in Asia: An Overview,” with Kenneth B. Medlock III. *Asian Energy Trends*, Emirates Center for Strategic Studies and Research, 2003.

“The Present Status and Future Prospects of Energy in China,” with Ronald Soligo and Kenneth B. Medlock III. *Asian Energy Trends*, Emirates Center for Strategic Studies and Research, 2003.

“Oil and the New World Order,” with Edward L. Morse and Joe Barnes. *The National Interest*, Dec. 2003.

“The Case of the Caspian Basin.” *Beyond Transition: Ten Years after the Fall of the Berlin Wall*, UNDP with CESTRAD and the Institute of Social Studies, Edited by Max Spoor, Bratislava, 2001.

“Beijing’s Oil Diplomacy,” with Steven W. Lewis. *Survival*, Spring 2002, Vol. 44, No. 1. Routledge. pp.115-134.

“Energy as a Binding Factor: Asia Revisited.” *Post-Soviet Geography and Economics*, Vol. 42, October-November 2001.

“Russia, Energy and the West” with Robert Manning. *IISS Survival*, Summer 2001, Vol. 42 No. 2.

“Asia’s Thirst for Fuel: Cooperation and Energy Politics.” *Harvard International Journal*, Vol. 23, No 2, Summer 2001.

“Price vs. Market share for the Arab Gulf Producers: Do Caspian Oil Reserves Tilt the Balance?” *Caspian Energy Resources: Implications for the Arab Gulf*. Emirates Center for Strategic Studies and Research, 2000.

“The Shocks of a World of Cheap Oil” with Robert Manning. *Foreign Affairs*, Jan/Feb. 2000, Vol. 79 No. 1.

“The Myth of the Caspian Great Game: The Real Geopolitics of Energy” with Robert A. Manning. *IISS Survival*, Winter 1998-99, Vol. 40 No. 4.

Select Op-Eds

“Voluntary Emissions Reduction: How the U.S. Can Stay in Paris Agreement” Amy Myers Jaffe and Daniel Scheitrum, *The Hill*, 2019

Axios Expert Voices:

“Iran’s Militarized Oil Blackmail Exposes Failure of Deterrence” 2019

“New Energy Technologies are Disrupting the Power of OPEC” 2019

“Despite Rise in U.S. Oil Production, OPEC Steers Global Prices” 2019

“Green New Deal Could Support Needed Upgrades to Energy Infrastructure” 2019

“Qatar’s OPEC Exit Signals Intensifying Energy Competition Beyond Oil” 2018 “Energy System Ill-prepared for Impact of Accelerated Global Warming” 2018

“Lower EPA Fuel Efficiency Standards Threaten U.S. Energy Dominance” 2018

“Protecting Energy Groups from Climate Lawsuits is a Bad Idea, *Financial Times*, September 6, 2018

“Rolling Back Energy Regulations Will Not Work Any Wonders For America” *The Hill*, August 28, 2018

“A Price on Carbon May Be Coming Soon to the US,” *Wall Street Journal*, September 13, 2016

“Investors Will Need To Be Nimbler If Peak Oil Demand Is Reached” *Financial Times*,

August, 18, 2016

“Why The World’s Appetite for Oil Will Peak Soon” *Wall Street Journal*, May 5, 2015

“What to Consider Before Tapping the Strategic Petroleum Reserve, *Wall Street Journal* September 18, 2015

“The U.S. Needs a Plan to Deal with Mideast Oil-Sharing Conflicts,” *Wall Street Journal*, October 3, 2014

“How Investors are Evaluating Oil and Gas Companies,” *Wall Street Journal*, May 20, 2014

“Liquefied Natural Profits: The United States and the Remaking of the Global Energy Economy” with Edward Morse, *Foreign Affairs*. September 16, 2013.

“The End of OPEC.” With Edward Morse. October 16, 2013. *Foreign Policy*, at http://www.foreignpolicy.com/articles/2013/10/16/the_end_of_opec_america_energy_oil

“The Clean Tech Path Needs a Revamp,” March 27, 2013, The Wall Street Journal The Experts, at http://stream.wsj.com/story/experts-energy/SS-2-135538/SS-2198376/?mod=wsj_streaming_experts-energy

“Why China Should Start Worrying About the Mideast’s Oil Weapon” September 26, 2013, The Wall Street Journal, The Experts at <http://blogs.wsj.com/experts/tag/amymyers-jaffe/>

“An Oil Boom Means Washington –not Riyadh- Could Become World’s Swing Oil Producer” March 25, 2013 The Wall Street Journal, The Experts, at <http://stream.wsj.com/story/experts-journal-reports/SS-2-135503/SS-2-196847/>

“The Oil Weapon will Lose Potency” March 26, 2013, The Wall Street Journal, The Experts, at http://stream.wsj.com/story/experts-energy/SS-2-135538/SS-2197216/?mod=wsj_streaming_experts-energy

“A Reality Check on Renewables” New York Times Room for Debate Blog, November 6, 2011.

“It’s Not A Matter of Supply,” New York Times Room for Debate Blog, March 9, 2011.

“Shale Gas will Rock the World,” in *Wall Street Journal*. May 10, 2010.

“Point Person: Our QandA with energy expert Amy Jaffe,” in Dallas Morning News. May 7, 2010.

Opposition in the debate “This house believes tackling climate change means leaving fossil fuels behind completely and quickly.” The Economist, September 2009.

“Who Is In the Oil Futures Market and How Has it Changed?,” (by Kenneth B. Medlock III). Report. James A. Baker III Institute for Public Policy, August 26, 2009.

“Subpriming the Pump,” with Mahmoud A. El Gamal, in Foreign Policy. August 2009.

“Higher gas tax could help solve U.S. economic woes.” Houston Chronicle. January 18, 2009.

“Chavez the Pragmatist: Forget About It” ForeignPolicy.com, January 19, 2009 (Contributions by Amy Jaffe). “How to Kick Our Oil Addiction Despite Plunging Oil Prices.” The Wall Street Journal. November 17, 2008: R1.

“Saudi’s can’t save us.” Houston Chronicle. July 13, 2008: E1, E4.

“Real Urgency About Energy: We Won’t Get There By Tinkering.” Houston Chronicle. February 24, 2008: E1, E4.

Smalley, Richard (Contributions by Amy Jaffe). “Imagine a world that’s energy-rich.” Houston Chronicle. February 24, 2008: E5.

“Surge in Alternative Energy Development - Houston Energy Capital Status Grows Amid New Opportunities,” with Ferras Vinh. Energy Capital Houston. Greater Houston Partnership, January 2008: 60-62.

“21 Solutions to Save the World: Flip the Switch,” Foreign Policy Magazine. May/June 2007: 44.

“Fuel for Thought: What you need to know about the global energy crisis,” with Kenneth B. Medlock III. Journey. AAA. November/December 2007: 22-26.

“The Cowardly Giants.” Newsweek. November 26, 2007.

“You, Your Car, and U.S. Energy Policy,” with Kenneth B. Medlock III. Car & Travel. AAA. November 2007: 20-22.

“You, Your Car, and U.S. Energy Policy,” with Kenneth B. Medlock III. AAA World. November/December 2007: 63-67.

“You, Your Car, and U.S. Energy Policy,” with Kenneth B. Medlock III. AAA Going Places: 6-7.

“Join the Energy Debate,” with Kenneth B. Medlock III. AAA Southern Traveler. November/December 2007: 12-15.

“New Energy in the Energy Capital: Alternative Energy Initiatives are Alive and Well,” with Rikk Alessi. Energy Capital Houston. Greater Houston Partnership, January 2007: 14-15.

“The Coastal Cities Phenomenon.” Esquire. October 2006: 187.

“Security at risk without changes.” Fuels of the future: Nation has to adapt to keep its motors running. The Indianapolis Star. August 27, 2006.

“The Oil Crisis: How Doomed Are We?” Esquire. August 2006: 50.

“Solar Sister.” Elle Magazine. May 2006: 223.

“No Easy Way Out – Are we really addicted to oil?” with Joe Barnes and Ronald Soligo. Houston Chronicle. February 4, 2006.

“Seven Ways to Fix the Oil Crisis.” Esquire. December 2005: 217

“Blinded by the Profits: Record oil earnings obscure the fact that the best way to fight high prices is to reduce dependence” New York Newsday, November 13, 2005, A42

“Houston Challenge. Needed: A plan to keep title of energy capital,” with Richard Smalley and Wade Adams. Houston Chronicle. December 5, 2004: E1, E4.

“Wasted Energy” The New York Times, July 27, 2005

“Unfinished business: 1973 Arab oil boycott,” with Edward L. Morse. Houston Chronicle. October 17, 2003.

“Who will lead the nation out of darkness? Texas can,” with Roger Anderson, Ron Oligney, and Richard Smalley. Houston Chronicle. August 19, 2003: 19A.

“Food for Thought... Pun Intended.” James A. Baker III Institute for Public Policy. October 28, 2008.

“Regional Politics in the Persian Gulf: A View Related to Oil Markets” James A. Baker

III Institute for Public Policy, Tuesday, December 12, 2006

“Dream of Oil Drives Diplomacy” with Robert Manning, Los Angeles Times, November 1, 1998

Congressional Testimonies

“Energy Trends and Outlook” Committee on Appropriations: Energy and Water Development Subcommittee. U.S. House of Representatives. February 2019

”21st Century Energy Markets” Committee on Energy and Commerce, U.S. House of Representatives. March 3, 2015

“Opportunities and Challenges of the U.S. Crude Oil Export Ban” Committee on Energy and Natural Resources, U.S. Senate, January 30, 2014

“U.S. Energy Abundance: Exports and the Changing Global Energy Landscape.” Testimony to the Committee on Energy and Commerce. U.S. House of Representatives. Subcommittee on Energy and Power. May 7, 2013.

“The U.S. Energy Predicament” Aspen Institute Congressional Program on Climate and Energy Policy, Valencia, Spain, April 2009

“The Future of Oil.” Testimony to the Select Committee on Energy Independence and Global Warming. U.S. House of Representatives. June 11, 2008.

“Is China a Responsible Stakeholder?” Testimony with Matthew E. Chen before the U.S.-China Economic and Security Review Commission. Hearing on China’s Role in the World: Is China a Responsible Stakeholder? August 4, 2006.

“Russia: Back to the Future?” Testimony before the U.S. Senate Committee on Foreign Relations. June 29, 2006.

“The Strategic and Geopolitical Implications of Russian Energy Supply.” Aspen Institute Congressional Program. Moscow, Russia, August 2003.

“China’s Growing Energy Needs.” The Sino-Saudi Energy Rapprochement: Implications for US National Security. The Garcia Group. Prepared for the Office of Secretary of Defense, U.S. Department of Defense. January 8, 2002.

Service

Co-Chair, Steering Committee, Women in Energy Program, Center on Global Energy Studies (CGEP), Columbia University, 2017 – present

President, U.S. Association of Energy Economics, 2020 to present

Senior Fellow Award, US Association for Energy Economics, 2015

Adelman-Frankel Award, US Association for Energy Economics, to the Baker Institute Energy Forum (*Founding Director*) 1996-2012, for its unique and innovative contribution in the field of energy and economics

Presenting Scholar, Aspen Institute Congressional Programs, 2003, 2009, 2014, 2017, 2020

Opening Keynote, Annual Meeting, Association of American Universities, 2010

100 Best and Brightest Award, Contribution to Society, Esquire Magazine, 2005
Honoree, Key Women in Energy Americas, Pathfinders/Trailblazers, 2004

Senior Advisor, Energy and Sustainability, Office of the Chief Investment Officer of the Regents, 2014-June 2017

Global Fellow, Woodrow Wilson International Center for Scholars, 2014-June 2017

Chair, Global Agenda Council, Future of Oil and Gas, World Economic Forum (Davos), 2013-2016

Member, Global Future Council on International Security, World Economic Forum (Davos), 2016-2018

Member, Global Future Council on U.S. Foreign Policy, World Economic Forum (Davos), 2019-present

Member, US National Petroleum Council, 2013-2017; Subcommittee on Carbon Sequestration Technologies, 2019

Member, Petroleum Marketing Advisory Committee (PMAC), California Energy Commission, 2014-September 2017

Member, Steering Committee, Independent Review of Scientific and Technical Information on Well Completion Techniques, including Hydraulic Fracturing, in California, Bureau of Land Management, California State Office, 2015

Member, Advisory Board of GE Ecomagination, 2013-2015

Teaching

UC Davis GSM Management 290 (Summer). Sustainable Business Ventures. The upheaval in the global oil market over the last half decade has been unprecedented. Rising fuel costs and volatility of the oil market can have negative impacts on venture profitability, if firms do not have strategies to deal with such risks. Global climate change and sustainability is another challenge that is increasingly impacting businesses. Energy sustainability as a business goal extends beyond “green” products but encompasses a set of complex values that can be expressed in a multitude of ways. Sustainable development broadly defined ensures that economic and social activity can meet the needs of the present without compromising the ability of future generations to meet their own needs. Governments, businesses, civil society and individuals all have a role in promoting sustainability.

This course will introduce students to the inner workings of the oil and gas industry and the geopolitical and economic influences that affect energy pricing and the associated environmental externalities of the oil and gas business. Students will learn about the various strategies, tools, and financial products that are available to help business managers reduce their business’ exposure to fuel price risks and to address carbon emissions limitations. Topics will include case studies on corporate responses to the potential “carbon bubble”; sustainability metrics; gyrating jet fuel prices and integrating energy efficiency and renewable energy into fuel strategies.

Yale School of Forestry and Environment, F & ES778b. Business and Energy Markets, Prices and Sustainability The upheaval in the global oil market over the last half decade has been unprecedented. Rising fuel costs and volatility of the oil market can have negative impacts on venture profitability, if firms do not have strategies to deal with such risks. Global climate change and sustainability is another challenge that is increasingly impacting businesses. Energy sustainability as a business goal extends beyond “green” products but encompasses a set of complex values that can be expressed in a multitude of ways. Sustainable development broadly defined ensures that economic and social activity can meet the needs of the present without compromising the ability of future generations to meet their own needs. Governments, businesses, civil society and individuals all have a role in promoting sustainability.

This course will introduce students to the inner workings of the oil and gas industry and the geopolitical and economic influences that affect energy pricing and the associated environmental externalities of the oil and gas business. Students will learn about the various strategies, tools, and financial products that are available to help business managers reduce their business’ exposure to fuel price risks and to address carbon emissions limitations. Topics will include case studies on corporate responses to the potential “carbon bubble”; gyrating jet fuel prices and integrating energy efficiency and renewable energy into fuel strategies.

UC Davis GSM Management 413. Sustainable Venturing. Sustainability as a business goal extends beyond “green” production and encompasses a set of complex values that can be expressed in a multitude of ways. Sustainable development broadly defined insures that economic and social activity can meet the needs of the present without compromising the ability of future generations to meet their own needs. Governments, businesses, civil society and individuals all have a role in promoting sustainability.

This course will introduce students to sustainability goals, indicators, values, measurement techniques and practices in how it applies to large and small enterprises. Students explore the connections between energy, environmental justice and poverty and the implications for sustainability, the role of technology, policy and business. Through this prism we will investigate opportunities in energy and sustainability venturing.

UC Davis GSM Management 413 -001. Sustainable Business Ventures: Energy 2, Markets and Prices.

The upheaval in the global oil market over the last half decade has been unprecedented. Rising fuel costs and volatility of the oil market can have negative impacts on venture profitability, if firms do not have strategies to deal with such risks. According to a 2012 survey by the Small Business and Entrepreneurship Council, 41 percent of small businesses report that they had altered hiring plans and 22 percent report reducing employee hours due to high energy costs. Even for many larger businesses, fuel price costs can be a major determinant in cash flow conditions, providing an incentive to hedge commodity price risk.

This course will introduce students to the forces – both geopolitical and economic-- that influence energy pricing in the short and medium term and investigate the tools and strategies that exist to reduce exposure to that risk. Students will gain an understanding of how to assess the factors that make up the building blocks for oil price forecasting and to evaluate differences among various publicly available forecasts. This course will also familiarize students with the terminology and operation of various strategies, tools and financial products that are available to help business managers reduce their business’s exposure to fuel price risks.

Rice University Policy Studies, Post 401 Energy Policy

Energy has long been a major factor in the formulation of national security, foreign policy and domestic economic strategies as well as a driving force in the exercise of national power and general international discourse. Oil is frequently linked to war, civil and ethnic conflict, terrorism, poverty, corruption and social justice. As national energy security concerns and pressures to reduce greenhouse gas emissions intensify, large energy consuming countries like the United States are struggling to improve their national energy policy in the broader context of international relations and domestic economic policy. This course will look in depth at how energy security challenges have evolved over the years and consider the elements to creating a successful national energy strategic plan that is comprehensive and

takes into account the role of alternative energy, diplomatic initiatives, transparency policy, and social change. Class discussion will cover the key aspects in the politics and policy of energy and sustainability. Topics include: US transportation policy; resource curses; geopolitical risk and decision making.

Policy Studies, Post 411, Integrated Solutions to Sustainable Development (Topic changes each year, cross listed in civil and environmental engineering, summer travel practicum; examples below)

Policy Studies 411 is a multidisciplinary course in which students explore the origins, connections and consequences of social and political tensions arising from the expansion of commercial energy resources in unique and rapidly changing Arctic and sub-Arctic environments. The challenge for the class will be to understand that in matters of sustainable development systemic complexities often give rise to a disconnect between analysis and decision-making. Topics will include the impacts of commercial energy development and drilling in rapidly changing Arctic environments, as well as strategies that can promote sustainable development and improved conditions for indigenous populations in the context of environmental challenges associated with the Arctic meltdown and drilling activities for oil and gas. *Summer study in Alaska.*

Communities in arid and semi-arid regions struggle to access sufficient supplies of fresh water for domestic and agricultural needs. Now in some coastal regions and areas adjacent to coasts, fog water harvesting is emerging as an alternative source of water. While fog collection is a suitable sustainable water solution in parts of Morocco, it is important to understand social dynamics within the targeted villages to determine communities' needs and desire to participate in a fog collection project. This course will study the engineering of fog collection, as well as investigate available resources and gender-related implementation issues. The course will also investigate how proposed systems for distribution can be sustained in the long run, based on micro-financing and other forms of participation among local communities. *Summer study in Morocco.*

The Lesotho Sustainability Assessment Project course will study the connection between energy, health, and poverty in Maseru, Lesotho, to develop integrated solutions at the community level. Students will work in partnership with local villages to conduct an on-site, community-based needs assessment in Maseru, Lesotho, in order to develop solutions to small scale problems such as water and food scarcity, soil erosion, and energy efficiency on community structures. *Summer study in Maseru and surrounding communities.*

WORK EXPERIENCE

Tufts University

Managing Director, Climate Policy Lab and Research Professor
The Fletcher School

Council on Foreign Relations

Director, Program on Energy Security and Climate Change

David M. Rubenstein Senior Fellow for Energy and the Environment

Office of the Chief Investment Officer, UC Regents

Senior Advisor, Energy/Sustainability

University of California, Davis

Executive Director, Energy/Sustainability

James A. Baker III Institute for Public Policy, Rice University

Founding Director, Energy Forum (now Center for Energy Studies)

- Faculty advisory board for Rice 360 Africa program; John Doerr Institute for New Leaders; and Smalley-Curl Institute, leading an interdisciplinary initiative on nano and energy that led to \$10 million science innovation consortium
- Associate director (faculty-side) of the interdisciplinary Shell Center for Sustainability and the Rice Energy Program (Rice Engineering Department program)

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