

Kenneth B. Medlock III, PhD

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Current Positions

James A Baker III and Susan G Baker Fellow in Energy and Resource Economics, and
Senior Director, Center for Energy Studies,
James A Baker III Institute for Public Policy, Rice University
Director, Masters of Energy Economics, and Adjunct Professor and Lecturer,
Department of Economics, Rice University
Adjunct Professor, Department of Civil and Environmental Engineering, Rice University
Faculty Advisory Board, Energy and Environment Initiative, Rice University

Fields

Energy and Environmental Economics and Policy, Energy and Economic Growth, Applied
Microeconomics, Applied Econometrics, Productivity Analysis

Highest Education

Ph.D. – Economics, Rice University, May 2000
“Essays on Economic Development, Energy Consumption, and the Environment”

Awards/Memberships/Affiliations

Distinguished Fellow, Institute Energy Economics Japan (IEEJ), 2016-2017
Board of Scholars, Center for Policy Research, American Council for Capital Formation, 2015-
Adelman-Frankel Award to Rice University's Baker Institute Center for Energy Studies, United States
Association for Energy Economics (USAEE), 2013
Senior Fellow, USAEE, 2012
Vice President, Conferences, USAEE, 2014-2015
Vice President, Academic Affairs, USAEE, 2012-2013
Haydn Williams Fellow, Curtin University, Perth, Australia, 2012-2013
Outstanding Paper in *The Energy Journal* in 2001, awarded by the International Association for
Energy Economics (IAEE)
Council Member, IAEE, 2011
Who's Who in America, 2009-
Member, American Association for the Advancement of Science (AAAS)
Member, American Economic Association (AEA)
Member, International Association for Energy Economics (IAEE)
Member, National Association of Business Economists (NABE)
Academic Member, National Petroleum Council (NPC)

Sponsored Research/Grants

Principal Investigator, Baker Botts for “Annual Energy Conference and Leadership Engagement”
(2017-2021): \$1,000,000
Principal Investigator, Qatar Leadership Center for “Energy Leadership Roundtable Series” (2016):
\$252,000
Principal Investigator, U.S. Department of Energy, National Energy Technology Laboratory for “The
Macroeconomic Impact of U.S. LNG Exports” (2015): \$186,752

- Principal Investigator, Subcontract Award from the University of Texas for the Alfred P. Sloan Foundation Grant on “Shale Oil” (2014-2016): \$100,000
- Principal Investigator, Alfred P. Sloan Foundation Grant on the “The Market Impacts of New Shale Gas-Directed Policies in the United States” (2013-2014): \$275,000
- Principal Investigator, Subcontract Award from the University of Texas for the Alfred P. Sloan Foundation Grant on the “The Role of Shale Gas in the U.S. Energy Transition: Recoverable Resources, Production Rates, and Implications” (2011-2013): \$100,000
- Principal Investigator, Qatar Petroleum Award for “International Natural Gas and Policy” (2011-2013): \$725,000
- Principal Investigator, U.S. Department of Energy, Office of International Policy and Affairs Award for “Shale Gas and US National Security” (2011): \$100,000

Publications

Peer Reviewed

- “Valuing the air quality effects of biochar reductions in soil NO emissions,” with Ghasideh Pourhashem, Quazi Z. Rasool, Rui Zhang, Daniel S. Cohan, and Caroline A. Masiello, *Environmental Science and Technology*, in review.
- “Employment Impacts of Upstream Oil and Gas Investment in the United States” with Mark Agerton, Peter Hartley and Ted Temzelides, *Energy Economics*, forthcoming (2017).
- “Geospatial, temporal and economic analysis of alternative fuel infrastructure: The case of freight and U.S. natural gas markets,” with Yueyue Fan, Allen Lee, Nathan Parker, Amy Myers Jaffe, Rosa Dominguez-Faus, *Energy Journal*, forthcoming (2017).
- “The Valley of Death for New Energy Technologies,” with Peter Hartley, *Energy Journal*, Vol 38, No 3 (2017).
- “A view to the future of natural gas and electricity: An integrated modeling approach,” with Wesley Cole and Aditya Jani. *Energy Economics*, Vol. 60 (Nov 2016).
- “Could trade help achieve energy security?” *World Economic Forum* (Mar 2016).
<https://www.weforum.org/agenda/2016/03/could-trade-help-achieve-energy-security/>
- “Energy Sector Innovation and Growth: An Optimal Energy Crisis” with Peter Hartley, Ted Temzelides and Xinya Zhang, *Energy Journal*, Vol. 37, No. 1 (Jan 2016).
- “Employment impact from competing energy sources: Shale gas versus wind generation in Texas” with Peter Hartley, Ted Temzelides and Xinya Zhang, *Energy Economics*, Vol. 49 (May 2015).
- “A review of water and greenhouse gas impacts of unconventional natural gas development in the United States” with Douglas Arent, Jeffrey Logan, Jordan Macknick, William Boyd, Francis O’Sullivan, Jae Edmonds, Leon Clarke, Hillard Huntington, Garvin Heath, Patricia Statwick and Morgan Bazilian, *MRS Energy & Sustainability*, Vol. 2 (2015).
- “China’s Energy Hedging Strategy: Less Than Meets the Eye for Russian Gas Pipelines” with Amy M Jaffe and Meghan O’Sullivan, *The National Bureau of Asian Research* (February 9, 2015).
- “The Global Gas Market, LNG Exports, and the Shifting U.S. Geopolitical Presence” with Amy M. Jaffe and Meghan O’Sullivan, *Energy Strategies Reviews*, Vol. 5 (December 2014).
- “The Relationship between Crude Oil and Natural Gas Prices: The Role of the Exchange Rate” with Peter Hartley, *Energy Journal*, Vol. 35, No. 2 (2014).
- “Environmental, Economic, and Energy Assessment of the Ultimate Analysis and Moisture Content of Municipal Solid Waste in a Parallel Co-Combustion Process” with Ana McPhail, Robert Griffin, Mahmoud El-Halwagi, and Pedro J.J. Alvarez, *Energy and Fuels*, DOI 10.1021/ef401373n (December 27, 2013).
- “Shale Gas in China: Prospects, Concerns, and Potential International Collaborations” with Morgan Bazilian, Ascha Lychett Pedersen, Jacquelyn Pless, Jeffrey Logan, Francis O’Sullivan, and Jane Nakano, *International Shale Gas and Oil Journal*, Vol.1, Issue 1 (September 2013).
- “China, India, and Asian Energy” with Amy Jaffe, in *Energy and Security: Towards a New Foreign Policy Strategy (2nd ed)*, edited by J.H. Kalicki and D.L. Goldwyn. Woodrow Wilson Press (2013).
- “Changes in the Operational Efficiency of National Oil Companies,” with Peter Hartley, *Energy Journal*, Vol. 34, No. 2, (2013).

- “Modeling the implications of expanded US shale gas production,” *Energy Strategies Review*, No. 1, (January 2012).
- “The Status of World Oil Reserves and Implications for the Gulf” with Ron Soligo and Amy Myers Jaffe, *The Emirates Occasional Papers* 78 (2011): 1.
- “Empirical Evidence of the Efficiency of National Oil Companies” with Stacy Eller and Peter Hartley, *Empirical Economics*, (May 2011)
- “The Future of LNG Trade” in *Handbook of Utility Management*, ed. Andreas Bausch and Burkhard Schwenker (2009)
- “Energy Demand Theory” in *International Handbook on the Economics of Energy*, ed. Joanne Evans and Lester C. Hunt (2009)
- “The Economics of Energy Supply” *International Handbook on the Economics of Energy*, ed. Joanne Evans and Lester C. Hunt (2009)
- “Potential Futures for Russian Natural Gas” with Peter Hartley, *Energy Journal*, Special Issue, “World Natural Gas Markets and Trade: A Multi Modeling Perspective” (2009)
- “Recent Developments in the North American Natural Gas Market” *Diamond Gas Report*, No. 904 (February 25, 2009)
- “A Model of the Operation and Development of a National Oil Company” with Peter Hartley *Energy Economics*, Vol.30, No.5 (September 2008)
- “The Relationship of Natural Gas to Oil Prices” with Peter Hartley and Jennifer Rosthal, *Energy Journal*, Vol. 29, No.3 (2008)
- “The Baker Institute World Gas Trade Model” with Peter Hartley, in *Natural Gas and Geopolitics: 1970-2040*, ed. David Victor, Amy Jaffe, and Mark Hayes, Cambridge University Press (2006)
- “Political and Economic Influences on the Future World Market for Natural Gas” with Peter Hartley, in *Natural Gas and Geopolitics: 1970-2040*, ed. David Victor, Amy Jaffe, and Mark Hayes, Cambridge University Press (2006)
- “Economic Issues of Natural Gas Transmission in Northeast Asia: Political Bridges and Economic Advantages” with Peter Hartley and Amy Jaffe, in *Joint U.S.-Korea Academic Studies*, Volume 16 (2006)
- “Energy Trade in China and Northeast Asia” with Amy Jaffe, in *Energy Security in the 21st Century: A New Foreign Policy Strategy*. Woodrow Wilson Center Press. (2005)
- “Future World Market for Natural Gas Highly Dependent on Interactions” with Peter Hartley, *Natural Gas and Electricity*. Wiley Periodicals, Vol. 22, No. 1 (August 2005)
- “The Economics of Energy Demand” in *Encyclopedia of Energy*. Elsevier Press (April 2004)
- “Energy Trade in Asia: An Overview” with Amy Meyers Jaffe, in *Asian Energy Markets Dynamics and Trends*. The Emirates Center for Strategic Studies and Research. (2004)
- “The Present Status and Future Prospects of Energy in China” with Ron Soligo and Amy Meyers Jaffe, in *Asian Energy Markets Dynamics and Trends*. The Emirates Center for Strategic Studies and Research. (2004)
- “Automobile Ownership and Economic Development – Forecasting Motor Vehicle Stocks to 2015” with Ron Soligo. *The Journal of Transport Economics and Policy*, (Spring 2002)
- “Controlling Carbon Dioxide: An Analysis of Competing Marginal Effects” with Peter Hartley. *IAEE Newsletter* (Fourth Quarter 2001)
- “Economic Development and End-Use Energy Demand” with Ron Soligo. *Energy Journal*, Vol. 22, No. 2 (2001)

Other Research Publications

- “Assessing Shale Producers’ Ability to Scale Up Activity,” with Gabriel Collins, Issue Brief, CES Rice University’s Baker Institute for Public Policy (January 15, 2017).
- “U.S. Energy Policy: Guidance for the Next Administration,” CES Policy Brief prepared for the incoming Administration, Rice University’s Baker Institute for Public Policy (Jan 2017).
- “U.S. Energy Policy: Recommended Guidance for the Next Administration,” CES research paper prepared for the incoming Administration, Rice University’s Baker Institute for Public Policy (Jan 2017).
- “The Shale Revolution and Its Implications for the World Energy Market,” *IEEJ Energy Journal, The 50th Anniversary Special Issue* (June 2016).

- “The Macroeconomic Impact of Increasing U.S. LNG Exports” with Adrian Cooper, Michael Kleiman and Scott Livermore, sponsored by the U.S. Department of Energy, available online at <http://bakerinstitute.org/center-for-energy-studies/> (December 28, 2015).
- “US Shale: Ever Onwards,” *Petroleum Economist Outlook 2016*, Petroleum Economist (Dec 2015).
- “A Review of Sector and Regional Trends in U.S. Electricity Markets: Focus on Natural Gas,” with Jeffrey Logan and William C. Boyd, *Natural Gas and the Evolving U.S. Power Sector Monograph Series: Number 1 of 3*, Technical Report NREL/TP-6A50-64652, available online at <http://www.nrel.gov/docs/fy16osti/64652.pdf> (October 2015).
- “Employment Impacts of Upstream Oil and Gas Investment in the United States” with Mark Agerton, Peter Hartley and Ted Temzelides, *International Monetary Fund*, No. 15-28 (2015).
- “Exploring the Role of Natural Gas in U.S. Trucking,” with Amy Myers Jaffe, Rosa Dominguez-Faus, Allen Lee, Nathan Parker, Daniel Scheitrum, Andrew Burke, Hengbing Zhao and Yueyue Fan. University of California, Davis. Institute of Transportation Studies Research Report, No. UCD-ITS-RR-15-05 (2015).
- “North American Resources and Natural Gas Supply to the State of California,” University of California, Davis. Institute of Transportation Studies Research Report, No. UCD-ITS-RR-15-06. (2015).
- “To Lift or Not to Lift? The U.S. Crude Oil Export Ban: Implications for Price and Energy Security,” CES Baker Institute Study available online at <http://bakerinstitute.org/center-for-energy-studies/> (March 2015).
- “The Market Impacts of New Natural Gas-Directed Policies in the United States” sponsored by the Alfred P. Sloan Foundation, available online at <http://bakerinstitute.org/center-for-energy-studies/> (February 2015).
- “The Shale Revolution: What Do We Know and Where are We Going? A Conference Report,” sponsored by the Alfred P. Sloan Foundation, available online at <http://bakerinstitute.org/center-for-energy-studies/> (January 29, 2015).
- “The Land of Opportunity? Policy, Constraints and Energy Security in North America,” sponsored by Goldman Sachs, available online at <http://bakerinstitute.org/center-for-energy-studies/> (June 2014).
- “Natural Gas Price in Asia: What to Expect and What it Means” commissioned by the Non-proliferation Education Center, available online at <http://bakerinstitute.org/center-for-energy-studies/> (February 2014).
- “Deepwater activity will drive US offshore production,” in *Offshore Magazine* (January 2014).
- “Barnett Study Develops Full-Field Reserves, Production Forecast – Part 2 of 2” with John Browning, Scott Tinker, Svetlana Ikonnikova, Gurcan Gulen, Eric Potter, Qilong Fu, Susan Horvath, Tad Patzek, Frank Male, William Fisher, and Forrest Roberts, *Oil and Gas Journal* (September 2, 2013)
- “Barnett Study Develops Decline Analysis, Geologic Parameters for Reserves, Production Forecast – Part 1 of 2” with John Browning, Scott Tinker, Svetlana Ikonnikova, Gurcan Gulen, Eric Potter, Qilong Fu, Susan Horvath, Tad Patzek, Frank Male, William Fisher, and Forrest Roberts, *Oil and Gas Journal* (August 5 2013)
- “New Dynamics of the U.S. Natural Gas Market,” Contributing author/study participant, Bipartisan Policy Commission (May 2013).
- “U.S. Natural Gas Policy: Recommendations for the President” available online at <http://bakerinstitute.org/center-for-energy-studies/> (February 2013)
- “U.S. LNG Exports: Truth and Consequence” available online at <http://bakerinstitute.org/center-for-energy-studies/> (August 2012)
- “International Implications of Expanded Shale Gas Production,” in *Unconventional Energy Options*, Committee for Economic Development of Australia (July 2012).
- “Vehicle Stocks in China: Consequences for Oil Demand” with Ron Soligo and James Coan, available online at <http://bakerinstitute.org/center-for-energy-studies/> (December 2011)
- “Quantitative Analysis of Scenarios for Chinese Domestic Unconventional Natural Gas Resources and Their Role in Global LNG Markets” with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (December 2011)

- Prudent Development of North American Oil and Gas Resources*, Contributing author/study participant, Macroeconomic/Data & Studies Subgroups, National Petroleum Council (2011)
- “Potential World-wide Effects of Shale Gas,” in *Energy Studies Institute Bulletin on Energy Trends and Development*, Vol. 4, Issue 2 (July 2011).
- “Shale Gas and U.S. National Security” with Amy Myers Jaffe and Peter Hartley, sponsored by the US Department of Energy Office of International Policy and Affairs, available online at <http://bakerinstitute.org/center-for-energy-studies/> (July 2011)
- “The Revenue Efficiency of Pemex: A Comparative Approach” with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (April 2011)
- “Scenarios for Oil Supply, Demand and Net Exports for Mexico” with Ron Soligo, available online at <http://bakerinstitute.org/center-for-energy-studies/> (April 2011)
- “Impact of Shale Gas Development on Global Gas Markets,” in *Natural Gas and Electricity* (April 2011)
- Proposal for domestic gas (Domgas) policy submitted at request of the Committee Chair of the “Inquiry into Domestic Gas Prices, Economics and Industry Committee, Legislative Assembly of the Parliament of Western Australia” with Peter Hartley (December 2010)
- “Energy Market Consequences of Emerging Renewable Energy and Carbon Dioxide Abatement Policies in the United States” with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (September 2010)
- “Innovation, Renewable Energy, and Macroeconomic Growth” with Peter Hartley, Ted Temzelides and Xinya Zhang, available online at <http://bakerinstitute.org/center-for-energy-studies/> (September 2010)
- “LNG, Globalization, and Price Volatility: Understanding the Paradigm Shift”, prepared for the American Clean Skies Foundation and the National Council on Energy Policy (June 2010)
- “Fundamentals of a Sustainable U.S. Biofuels Policy” with Pedro Alvarez, Joel Burken, James Coan, Marcelo E. Dias de Oliveira, Rosa Dominguez-Faus, Diego E. Gomez, Amy Myers Jaffe, Susan E. Powers, Ronald Soligo and Lauren Smulcer, available online at <http://bakerinstitute.org/center-for-energy-studies/> (January 2010)
- “Who’s in the Oil Futures Market and How has it Changed?” with Amy Myers Jaffe, available online at <http://bakerinstitute.org/center-for-energy-studies/> (August 2009).
- “Scenarios for Russian Natural Gas Exports: The Role of Domestic Investment, the Caspian, and LNG” with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (May 2009)
- “The Future of Russian Natural Gas Exports” with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (May 2008)
- “Climate policy and energy security: two sides of the same coin?” with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (May 2008)
- “Energy Security in a Context of Hyper-Social Mobilization: Insights from Bolivia” with David Mares and Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (May 2008)
- “U.S. Energy Policy and Transportation” with Amy Jaffe, available online at <http://bakerinstitute.org/center-for-energy-studies/> (May 2008)
- “Iran, Energy and Geopolitics” with Daniel Brumberg, Jareer Ellass and Amy Jaffe, available online at <http://bakerinstitute.org/center-for-energy-studies/> (May 2008)
- Facing the Hard Truths*, Contributing author/study participant, LNG Subgroup and Peak Oil Deliberations, National Petroleum Council (2007)
- “North American Security of Natural Gas Supply in a Global Market” with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (November 2007)
- “The Relationship between Crude Oil and Natural Gas Prices” with Peter Hartley and Jennifer Rosthal, available online at <http://bakerinstitute.org/center-for-energy-studies/> (November 2007)
- “Electricity Sector Demand for Natural Gas in the United States” with Peter Hartley and Jennifer Rosthal, available online at <http://bakerinstitute.org/center-for-energy-studies/> (November 2007)
- “International Influences on the Link between US Crude Oil and Natural Gas Prices” with Peter Hartley and Amy Jaffe, available online at <http://bakerinstitute.org/center-for-energy-studies/> (November 2007)

- "A Technical Note on the Relationship between Crude Oil and Gasoline Prices" available online at <http://bakerinstitute.org/center-for-energy-studies/> (October 2007)
- "LNG Trading Evolves" in *Fundamentals of the World Gas Industry*, Petroleum Economist (June 2006)
- Western Integrated Energy Policy Report*, Contributing author, California Energy Commission (2005)
- "Energy and Natural Gas in Northeast Asia: Options for the Future" prepared for the SIIS conference *Energy Security: Options for US-China-Middle East Relations* (June 2005)
- "Russian Natural Gas Supply: Some Implications for Japan" with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (October 2004)
- "The Role of Nuclear Power in Enhancing Japan's Energy Security" with Peter Hartley, available online at <http://bakerinstitute.org/center-for-energy-studies/> (September 2004)
- Balancing Natural Gas Policy*, National Petroleum Council, Lead modeler and contributing author, Modeling Subgroup of the Supply Task group (2003)
- "Energy Demand in Latin America to 2015" with Ron Soligo, available online at <http://bakerinstitute.org/center-for-energy-studies/> (2002)
- "Energy Demand in Japan to 2015" with Ron Soligo, available online at <http://bakerinstitute.org/center-for-energy-studies/> (2000)
- "The Relationship between Economic Development and Energy Demand in China" with Ron Soligo, available online at <http://bakerinstitute.org/center-for-energy-studies/> (1999)
- "First Things First – Economic Development and Global Warming" with Peter Hartley and Michael Warby, available online at <http://bakerinstitute.org/center-for-energy-studies/> (1999)

Op-Eds

- "Why America's Clean Energy Plans Need To Embrace Nuclear Power" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Mar 2016)
- "Hillary, Bernie, Hydraulic Fracturing And The Future Of US Oil And Gas Production" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Mar 2016)
- "Confronting Climate Change: Policies and Opportunities" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Feb 2016)
- "Pennsylvania and Truth in The Incidence of a State Severance Tax" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Aug 2015)
- "The US Shale Experience: A Script for Mexico?" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Sept 2014)
- "Russia to China: A Gas Deal We All Should Have Seen Coming" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (May 2014)
- "A 'Credible Threat' Approach to Long Run Deterrence of Russian-European Hegemony" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Mar 2014)
- "Are Global Natural Gas Markets in a Period of Transition? The Magic 8-Ball Says..." published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Feb 2014)
- "The American Energy Renaissance: Who Is To Credit And What Is The Future Direction?" published online at www.forbes.com and available at <http://bakerinstitute.org/center-for-energy-studies/> (Jan 2014)
- "Shale Gas: A Game Changer with Global Implications" available online at <http://bakerinstitute.org/center-for-energy-studies/> (Oct 2009)
- "Hacking the Grid: Considering the Cyber Threat to the Nation's Power Distribution System" with Chris Bronk and Dan Wallach published in the *Houston Chronicle* and available online at <http://bakerinstitute.org/center-for-energy-studies/> (April 2009)
- "U.S. Gasoline Policy: Recommendations for the Next President" published in the *Houston Chronicle* and available online at <http://bakerinstitute.org/center-for-energy-studies/> (Jan 2009)
- "Speculation: A Cause or Symptom?" available online at <http://bakerinstitute.org/center-for-energy-studies/> (Sept 2008)

- “The OCS Leasing Moratorium: Which Way Forward?” published in *Houston Chronicle* and available online at <http://bakerinstitute.org/center-for-energy-studies/> (July 2008).
- “U.S. Energy Policy FAQ: The US Energy Mix, National Security and the Myths of Energy Dependence” with Amy Jaffe and Lauren Smulcer, available online at <http://bakerinstitute.org/center-for-energy-studies/> (Feb 2008)
- “Gas FAQ: US Gasoline Markets and US Oil Import Dependence” with Amy Jaffe, available online at <http://bakerinstitute.org/center-for-energy-studies/> (Sept 2007)
- “You, Your Car and U.S. Energy Policy: Things You Need to Know” with Amy Jaffe, published in *AAA magazine* regional distribution and available online at <http://bakerinstitute.org/center-for-energy-studies/> (Sept/Oct 2007)
- “The Price of Gasoline: How High for How Long?” available online at <http://bakerinstitute.org/center-for-energy-studies/> (Sept 2007)

Conference Organization Activities – External

- Session Organizer and Chair, “What Drives Energy Transitions? Environment, Innovation and Scale,” IAEE/AEA Session at AEA Meetings, Chicago, IL (Jan 6-8, 2017)
- Workshop Organizer, “Hydraulic Fracturing, Produced Water and Induced Seismicity,” 35th Annual USAEE/IAEE Energy Conference, Tulsa, OK, USA (Oct 23-26, 2016)
- Conference Chair, SPE Hydrocarbon Economics and Evaluation Symposium, “Fundamental Drivers, Commodity Cycles, and the Dynamics of Oil and Gas Valuation,” Houston, TX, USA (May 17-18, 2016).
- Session Organizer and Chair, “Economic Growth, Environment and Efficiency: Shaping the Future of Energy Demand,” IAEE/AEA Session at AEA Meetings, San Francisco, CA (Jan 3-5, 2016)
- Workshop Organizer, “Carbon Capture and Sequestration,” 34th Annual USAEE/IAEE Energy Conference, Pittsburgh, PA, USA (Oct 24-28, 2015)
- Session Organizer and Chair, “North America’s Dynamic and Emerging Role in the Global Energy Market,” IAEE/AEA Session at AEA Meetings, Boston, MA (Jan 3-5, 2015)
- Workshop Organizer, “The Energy-Water Nexus,” 37th Annual IAEE International Energy Conference, New York, New York, USA (June 15-18, 2014)
- Plenary Session Coordinator and Presider, 37th Annual IAEE International Energy Conference, New York, New York, USA (June 15-18, 2014)
- Session Organizer and Chair, “What Determines Oil Price: The Roles of Fundamentals and Speculation,” IAEE/AEA Session at AEA Meetings, Philadelphia, Pennsylvania (Jan 3-5, 2014)
- Workshop Organizer, “Methane Hydrates,” 32nd Annual USAEE/IAEE North American Energy Conference, Anchorage, Alaska, USA (July 28-31, 2013)
- Plenary Session Coordinator and Presider, 32nd Annual USAEE/IAEE North American Energy Conference, Anchorage, Alaska, USA (July 28-31, 2013)
- Best Student Paper Chair, 32nd Annual USAEE/IAEE North American Conference, Anchorage, Alaska, USA (July 28-31, 2013)
- Session Organizer and Chair, “The Future of Energy,” IAEE/AEA Session at AEA Meetings, San Diego, California (Jan 4-6, 2013)
- Best Student Paper Chair, 31st Annual USAEE/IAEE North American Conference, Austin, Texas, USA (November 4-8, 2012)
- Best Student Paper Chair, 32nd Annual USAEE/IAEE International Conference, Perth, West Australia, AUS (June 24-27, 2012)
- Session Organizer and Chair, “Capital Flows, Balance of Payments, and Energy Prices,” IAEE/AEA Session at AEA Meetings, Chicago, Illinois (Jan 4-6, 2012)
- Plenary Session Coordinator and Presider, 32nd Annual IAEE International Energy Conference, San Francisco, California, USA (June 21-24, 2009)

Testimony

2015

Testimony to the House of Representatives Committee on Small Business, “U.S. Crude Oil Exports” (June 17, 2015).

2014

Testimony to the Committee of Foreign Affairs, Subcommittee of Terrorism, Nonproliferation and Trade, U.S. House of Representatives, “U.S. Crude Oil Exports” (April 2, 2014).

2013

Testimony to the Senate Energy and Natural Resources Committee, “Opportunities for U.S. Natural Gas” (February 12, 2013).

2011

Testimony to the Senate Energy and Natural Resources Committee, “The Prospect of LNG Exports from the United States” (November 8, 2011).

Presentations

2017

“The Grand Energy Challenge and the Role of Natural Gas”, *Natural Gas Supply Association Annual Board Meeting*, Houston, TX (March 2, 2017)

Panel Discussion, “The Challenges Faced by Energy Exporting GCC States”, *Qatar Leadership Centre and Baker Institute for Public Policy Roundtable on the Future of Energy in Energy Exporting Nations*, Doha, QR (February 15-16, 2017)

“The Grand Energy Challenge”, Keynote Presentation, *Qatar Leadership Centre and Baker Institute for Public Policy Roundtable on the Future of Energy in Energy Exporting Nations*, Doha, QR (February 15-16, 2017)

“Global Energy Market Dynamics: Economics, Policy and Technology” – Georgia Tech University Energy Expo, Atlanta, GA (February 10, 2017)

“Global Energy Market Dynamics: Economics, Policy and Technology” – US Department of State, Foreign Service Officer Energy Education, Houston, TX (February 6, 2017)

“The Trump Administration’s Impact on Energy Markets” – Dinner Panel Discussion hosted by Sutherland Asbill and Brennan, *The Houstonian*, Houston, TX (January 18, 2017)

Chair and discussion lead, “What Drives Energy Transitions? Environment, Innovation and Scale,” IAEE/AEA Session at AEA Meetings, Chicago, IL (Jan 6-8, 2017)

2016

“The Grand Energy Challenge” – Presentation, Bayou Breakfast Club, River Oaks Country Club, Houston, TX (Dec 14, 2016)

“Natural Gas Price Volatility” – Presentation at *Oil and Gas Price Volatility* workshop, Columbia University, New York, NY (Dec 5, 2016)

“The Global Energy Landscape” – Presentation, *Houston Energy Breakfast*, Houston TX (Dec 2, 2016)

“Impacts of the U.S. Presidential Election on the Energy Industry” – Session Moderator, Baker Botts webinar (Nov 21, 2016)

“The Uncertain Future of Energy” – Keynote, API Chapter Luncheon, Lafayette LA (Nov 14, 2016)

“The Future of Energy” – Keynote, *Global Tax Symposium*, Houston, TX (Nov 2, 2016)

“The Future of Energy: A Historical Perspective” – *Women’s Global Leadership Conference in Energy*, Hyatt Regency Hotel, Houston, TX (Nov 1, 2016)

- "The North American Oil & Gas Powerhouse: Transforming for Success in an Era of Abundance" – Panel Discussion, *Ernst & Young Energy Executive Insight Session*, Houston, Texas (Oct 12, 2016)
- "Financing North America's Natural Gas Future" – Panel Moderator, *North America Gas Forum*, Washington, DC (Oct 2-5, 2016)
- "North American Natural Gas in an Evolving Regional, Geopolitical and Economic Context" – Panel Moderator, *North America Gas Forum*, Washington, DC (Oct 2-5, 2016)
- "North America's Unconventional Energy Opportunity – Fireside Chat" – *North America Gas Forum*, Washington, DC (Oct 2-5, 2016)
- KAPSARC-OIES Conference on "LNG Markets in Transition: the Great Reconfiguration,"* Washington, DC (Sept 27, 2016)
- "The Evolution of Energy Markets and Geopolitics" – Deloitte Oil and Gas Conference, Houston, Texas (Sept 21 2016)
- "Energy Market Fundamentals: What Comes Next?" – AUREO Conference, Fredericton, New Brunswick, Canada (Sept 20, 2016)
- "LNG Market Outlook" – *VMA Market Outlook Workshop*, Omni Hotel, San Diego, CA (Aug 11, 2016).
- "Energy in a Global Context" – US Department of State, Foreign Service Officer Energy Education, Houston, TX (Aug 1, 2016)
- "The Uncertain Energy Future: What do the Fundamentals Tell Us?" – Opening Keynote, *Rocky Mountain Mineral Law Foundation's 62nd Annual International Institute*, Squaw Valley, CA (July 21, 2016).
- "The Future of Oil and Gas" – Luncheon Address, BHP Billiton Young Professionals Group, Houston, Texas (July 12, 2016)
- "Navigating the Tides in an Uncertain Environment" – Keynote, Berkeley Research Group Energy Engagement Series, Houston, Texas (June 23, 2016)
- "An Uncertain Energy Future" – Keynote, Coronado Club Luncheon, Houston, Texas (June 20, 2016)
- "Is Natural Gas a Reliable Bridge to a Cleaner Energy Future?" – Keynote, NPEC Dinner, Washington DC (June 7, 2016).
- "The Global Impact of Shale" – *IEEJ 50th Anniversary Conference*, Tokyo, Japan (May 26-27, 2016)
- Discussion Session – Ernst & Young Senior Leadership Program, Houston, Texas (May 23, 2016)
- "The U.S. Oil Export Ban: A Post-Mortem" – Keynote, API Chapter Luncheon, Lafayette, Louisiana (May 9, 2016)
- "The Uncertain Energy Future" – Tejas Breakfast Club, River Oaks Country Club, Houston, TX (May 5, 2016).
- "The Uncertain Energy Future" – *6th Annual Energy Valuation Conference*, Houston, Texas (May 3 2016)
- "U.S. Production Growth, Price Differentials, Trade and the Global Crude Oil Market" – *US Crude Export Congress*, Houston, TX (Apr 28, 2016).
- "The Uncertain Energy Future" – *Chevron Distinguished Lecture*, Rice Chemical and Biomolecular Engineering Department, Houston, TX (Apr 14, 2016).
- "Macroeconomic impacts of US LNG exports" – Luncheon Keynote. Rice Global Engineering & Construction Forum, Rice University Grand Hall, Houston, TX (Apr 8, 2016).
- "North American Energy in a Global Context" – *North American Energy Forum*, Tecnologico de Monterrey, Monterrey, Mexico (Mar 10, 2016).
- "Policy and the Uncertain Future of Energy in North America" – Luncheon Keynote, *SCF Investors Conference*, St. Regis Hotel, Houston, TX (March 1, 2016).
- Panel Discussion – Houston BizJournal Leaders in Energy, Houston, TX (Feb 23, 2016)
- "Energy in a Global Context" – US Department of State, Foreign Service Officer Energy Education, Houston, TX (Feb 8, 2016)
- "Natural Gas in the U.S.: Growth, Transition or Forgotten Fuel," *NABE Energy Roundtable Webinar* (Feb 4, 2016).
- "Energy Economics and Policy: A Discussion of Approach" – Saudi Association of Energy Economics, Dhahran, Saudi Arabia (Jan 28, 2016).
- "Energy Markets in Transition: What does the Future Hold?" – ARAMCO Senior Leadership Briefing, Dhahran, Saudi Arabia (Jan 27, 2016).

- “The Global Reach of North American Shale” – Keynote, American Jewish Community Luncheon, Houston, Texas (Jan 21, 2016)
- “Macroeconomic impacts of US LNG exports” – API Legal Brief, Houston, Texas (Jan 19, 2016)
- “Dynamism, Energy and Economy” – Keynote, *Wortham Market Update Seminar*, River Oaks Country Club, Houston, TX (Jan 14, 2016).
- “The Macroeconomic Impacts of US LNG exports” – Keynote, LNG Allies Luncheon, Houston, TX (Jan 11, 2016)

2015

- “Peering through the Fog: Energy Market Uncertainty” – PrivCap’s *Energy Game Change 2015*, Houstonian Hotel, Houston, TX (Dec 10 2015)
- “Evolving Trends in Natural Gas: Economics and Geopolitics” – Presentation to students of the Naval War College, Rice University, Houston, TX (Dec 8, 2015)
- Crude Oil Export Panel Discussion – *Rice Energy Finance Summit*, Jones School of Business, Rice University, Houston, TX (Nov 6, 2015)
- “North American Natural Gas” – *147th National Business Economic Issues Council (NBEIC) Meetings*, Houston Branch of the Federal Reserve Bank of Dallas, Houston, TX (Nov 4, 2015)
- “Water at the Well-site: Production, Handling and Disposal” – Plenary Session Presider, 2015 USAEE/IAEE North American Conference, Pittsburgh, PA (Oct 25-28, 2016)
- “Fundamentals and the Future of Energy” – Yetter Coleman LLP Energy Briefing, Houston, TX (Oct 21, 2015)
- “Energy 2015... Markets in Transition” – Keynote, *Society of Exploration Geophysicists (SEG) Annual Meeting*, New Orleans, LA (Oct 19, 2015)
- “Energy Markets and Emerging Fundamentals” – Opening Presentation, *Platts 8th Annual Appalachian Oil & Gas Conference*, Pittsburgh, PA (Oct 15-16, 2015)
- “Domestic Electricity and Climate Regulation: U.S. and International Implications” – Panel Discussion, *National Association of Business Economics 57th Annual Meeting*, Grand Hyatt, Washington DC (Oct 12, 2015)
- “An Oil and Gas Outlook” – Luncheon Keynote, *Advanced Oil, Gas and Energy Law*, Westin Galleria, Houston, TX (Oct 2, 2015)
- “Energy Markets, Emerging Fundamentals, and Policy: Uncertain Times in Global Oil & Gas Markets” – Keynote, *PwC Energy Board Symposium*, Houston, TX (Oct 1, 2015)
- “The Impacts of Lifting the Crude Oil Export Ban: Oil Price, Gasoline Price and Energy Security” – Presentation to the Greater Houston Partnership Energy and Economic Council, Houston, TX (Sept 29, 2015)
- “Energy Markets Today: Looking Ahead Through an Uncertain Lens” – Energy Summit and Business Expo, Hispanic Chamber of Commerce, (Sept 18, 2015)
- “The Importance of Policy for Energy Markets” – A Conversation with the CEO, Marathon Political Action Committee Meeting, Houston, TX (Sept 17, 2015)
- “Energy markets and Uncertainty: What Does the Future Hold?” – Keynote, Society of Petroleum Engineers Luncheon, Houston, TX (Sept 10, 2015)
- “North American Energy Opportunity” – Panel Discussion, Trinity Industries Board of Directors Meeting, Dallas TX (Sept 9, 2015)
- “US Crude Oil Exports” – *Accenture’s Energy Hub*, The Houstonian, Houston, TX (Aug 18, 2015)
- “Smart Approaches to Valuation: Regional vs. Thematic vs. Technology-Based” – Discussion Lead, *Quantifying Energy Security Benefits: Assessing the G-7 Energy Security Core Principles at Home and Abroad*, Department of Energy, Washington, DC (Aug 10, 2015)
- “An Outlook for US LNG” – *Market Outlook Workshop*, Valve Manufacturer’s Association, Chicago, IL (Aug 6, 2015)
- “Recent Developments in Natural Gas, Crude Oil and Geopolitics” – US Department of State, Foreign Service Officer Energy Education, Rice University, Houston, TX (Aug 3, 2015)
- “Market Impacts of Natural Gas-Directed Policies” – Keynote, *Southern Gas Association Operating Conference*, Nashville, TN (July 20, 2015)
- “The U.S. Crude Oil Export Ban” – Presentation to the Greater Houston Partnership Energy Advisory Committee, Houston, TX (July 15, 2015)

- “Global Energy Markets: A Constantly Changing Landscape” – *CoBank’s 2015 Energy Director’s Conference*, Colorado Springs, CO (July 14 2015)
- “The Demand for Energy and the “3Es”: From Theory to Practice” – *The IEEJ 50th/APERC 20th Anniversary Joint Pre-symposium*, Tokyo, Japan (June 10, 2015)
- “North American Energy Demand” – *North American Refining Conference*, Business Intelligence, Doubletree, Houston, TX (June 9, 2015)
- “Global Oil and Gas Market Fundamentals” – Keynote, *Methanex Global Leadership Conference*, Dallas, TX (June 4 2015)
- “Global Energy Demand: A Fundamentals Driven View to the Future” – Presentation to the Marathon Board of Directors, Houston, TX (May 27, 2015)
- “Energy Market Dynamics” – Keynote and Discussion, *Conseillers du Commerce extérieur de la France Luncheon*, Artisans, Houston TX (May 22, 2015)
- “The Role of Shale in Global Markets: A Brief Synopsis of Select CES Research” – *Innovative Technology and Risk Management for Shale Gas Development: Toward a Center of Excellence*, Carnegie Mellon University, Pittsburgh, PA (May 15, 2015)
- “Natural Gas: What do the Fundamentals Tell Us?” – *Meeting of the Broadscale Group*, GDFSuez, Houston, TX (May 7, 2015)
- “Energy Markets, Emerging Fundamentals, and Policy: Uncertain Times in Global Oil & Gas Markets” – Keynote, *2015 Financial Summit: Strategic Leadership in a Volatile World*, Northwest Farm Credit Services, Seattle WA (May 6, 2015)
- “Geopolitical and Economic Context for Mexico’s Reforms” – Panel Discussion, *Haynes & Boone America’s Colloquium*, Rice University, Houston, TX (Apr 28, 2015)
- “Grounding Energy Market Uncertainty in Fundamental Analysis” – Keynote, *PwC Energy Directors Conference*, Houston, TX (April 9, 2015)
- “To Lift or Not to Lift: The U.S. Crude Oil Export Ban” – CES Study Rollout, National Press Club, Washington DC (Mar 23, 2015)
- “Emerging Fundamentals in an Uncertain Energy Landscape” – *Industry-Rice Earth Science Symposium 2015*, Rice University, Houston, TX (Mar 12, 2015)
- “Emerging Fundamentals in Global Oil and Gas Markets” – Presentation to the Methanex Board of Directors, Vancouver, BC, Canada (Mar 6, 2015)
- “Natural Gas Price in Asia: What to Expect” – *LNG: Canada’s Last Window of Opportunity*, CERI 2015 Natural Gas Conference, Calgary AB (Mar 2-3, 2015)
- Discussant, *Energy Data and Market Analysis*, DrillingInfo session, Four Seasons Hotel, Houston, TX (Feb 11, 2015)
- “Energy Market Fundamentals: What’s Next?” – Presentation to students of the Naval War College, BP Campus, Houston, TX (Feb 9, 2015)
- “Perspectives on Natural Gas Market Dynamics” – *7th Annual Australian American Chamber of Commerce Energy Conference*, Westin Houston, Houston TX (Feb 5, 2014)
- “US LNG Exports and the Evolution of the Global Gas Market” – Keynote, *Hart Energy’s World LNG Fuels Conference*, George R. Brown Convention Center, Houston, TX (Feb 4, 2015)
- “Recent Developments and Emerging Fundamentals in Global Oil and Gas Markets” – Keynote, Society of Petroleum Evaluation Engineers Luncheon, Houston Club, Houston, TX (Jan 22, 2014)
- Panel Discussion on US Oil Exports – Center for Global Energy Policy, Columbia University, New York, NY (Jan 21 2015)
- “Recent Developments in Crude Oil and Natural Gas Markets” – Presentation to the GE Oil & Gas Executive Committee Meeting, Houston TX (Jan 13, 2015)
- “North America’s Dynamic and Emerging Role in the Global Energy Market” – Session Chair, IAEE/AEA Joint Session, *American Economic Association Annual Meeting*, Boston, MA (Jan 3-5, 2015)

2014

- “Modeling Global LNG Markets: The Importance of Granularity for Infrastructure Constraints, Geography and Policy” – Stanford’s Energy Modeling Forum, Rice University, Houston, TX (Dec 4-5, 2014)

- “Natural Gas Demand: Outlooks and Implications” – *America’s Increasing Reliance on Natural Gas: Benefits and Risks of a Methane Economy*, American Geosciences Institute Critical Issues Forum, Fort Worth, TX (Nov 19, 2014)
- “Natural Gas: A Look Back to Look Forward” – *Air Liquide International Board Meeting*, Houston, TX (Nov 18, 2014)
- “U.S. Energy Independence: Fantasy or Reality?” – *Friends of Fondren Dinner Lecture*, Tudor Residence, Houston, TX (Oct 23, 2014)
- “North American Shale, Emerging Fundamentals and Shifting Geopolitics in Global Gas Markets” – Washington & Jefferson College, Washington PA (Oct 22 2014)
- “North American Shale and Emerging Fundamentals in Global Oil and Gas Markets” – *BP Customer Forum*, Austin, TX (Oct 14, 2014)
- “The US Energy Experience: Lessons for Europe?” – Panel Discussion, GDF Suez International Executive Leadership Web Panel, Houston, TX (Oct 10 2014)
- “North American Shale, Emerging Fundamentals and Shifting Geopolitics in Global Oil and Gas Markets” – Morning Keynote, *NESA’s 33rd Annual Meeting: Energy Forum 2014*, L’Auberge du Lac Resort, Lake Charles, LA (Oct 7-9 2014)
- “U.S. Crude Oil Exports and Petroleum Prices: Framing an Approach” – EIA Workshop, Washington DC (Oct 6, 2014)
- “Geopolitics of Natural Gas” – Luncheon Keynote, *32nd Annual Advanced Oil, Gas and Energy Resources Law Course*, Westin Galleria, Houston, TX (Oct 3, 2014)
- “The Earth Moves: Licensing Changes for Exporting Crude Oil and Natural Gas” – Panel Discussion, FTI-BakerBotts Breakfast, Washington DC (Sept 17, 2014)
- “North American Shale and Emerging Fundamentals in Global Oil and Gas Markets” – ChevronPhillips Executive Leadership Retreat, Woodlands, TX (Sept 9, 2014)
- “The Shale Revolution” – NREL Lecture, Golden, CO (Sept 8 2014)
- “The Socio-Economic Impacts of Shale Development” – Luncheon Keynote, *5th Annual Shale Law Conference*, Omni Hotel, Pittsburgh, PA (Sept 4, 2014)
- “Emerging Fundamentals in Global Natural Gas Markets: The US, Shale and LNG” – VMA Market Outlook Workshop, Boston MA (Aug 14, 2014)
- “Global Oil and Gas Market Developments” – US Department of State, Foreign Service Officer Energy Education, Houston, TX (Aug 6, 2014)
- “Natural Gas Price in Asia; What to Expect” – Nonproliferation Policy Education Center (NPEC) Workshop, Wash DC (July 28-29 2014)
- “North American Energy: Revolution, Transition and Interconnectedness” – *Texas Educators Conference*, Federal Reserve Bank of Dallas Houston Branch, Houston, TX (July 22, 2014)
- “U.S. Crude Oil Exports: A Paradigm Shifting Approach” – API Crude Oil Export Briefing, Washington DC (July 21, 2014)
- “Global Energy Markets: A Constantly Changing Landscape” – Keynote, *CoBank Annual Knowledge Exchange Globalization of Agricultural Forum*, St Louis, MO (June 23, 2014)
- Panel Discussion, “Breaking Free” Premier, New York, NY (June 18, 2014)
- “Oil and Gas Reserve Valuation” – *37th Annual International Association of Energy Economics Conference*, Presider, Joint IAEE/SPE Plenary Session, New York, NY (June 15-18 2014)
- “North American Energy: A Clear Path Forward?” – *NAFTA at 20: Effects on the North American Market*, Federal Reserve Bank of Dallas Houston Branch, Houston, TX (June 5, 2014)
- “Recent Trends & Emerging Fundamentals in Global Natural Gas Markets” – Air Liquide’s Methanol Day, Houston, TX (June 4, 2014)
- “Recent Trends & Emerging Fundamentals in Oil and Gas Markets” – Texas General Counsel Forum, Houston, TX (June 4 2014)
- “Russia-Ukraine and Global Gas Markets” – Luncheon Keynote, *Platts Benposium 2014*, Houston, TX (June 3 2014)
- “Recent Trends & Emerging Fundamentals: An Outlook for Global Oil and Gas Markets” – Methanex Global Leadership, Dallas, TX (May 29, 2014)
- “Russian Action and the Implications for Natural Gas” – *South Texas Money Management Annual Symposium*, San Antonio, TX (May 15 2014)

- “Recent Developments in Oil and Gas Markets” – Executive Leadership Presentation, Trinity Industries, Dallas TX (May 14 2014)
- “Recent Trends and Emerging Fundamentals: An Outlook for Global Gas Markets” – *BASF 2014 Energy Seminar, North American Natural Gas: Can Shale Gas Support North America’s Long Term Growth?* Florham Park, NJ (May 1, 2014)
- “Recent Trends & Emerging Fundamentals: An Outlook for Oil and Gas Markets” – Texas General Counsel Forum, Dallas TX (April 30 2014)
- “An Outlook for Global Gas Markets” – Keynote, *2014 ASA Energy Valuation Conference*, Houston, TX (Apr 29, 2014)
- “Recent Trends & Emerging Fundamentals: An Outlook for Global Oil and Gas Markets” – Keynote, *ENVIRON HOLDINGS, Inc. Annual Principals Meeting*, Scottsdale, AZ (Apr 25, 2014)
- “Can the US Shale Experience be Replicated around the World?” – *2014 International Petrochemical Conference*, San Antonio, TX (March 31 2014)
- “Natural Gas Price in Asia: What to Expect” – IMF Workshop, Washington DC (March 27 2014)
- “Global Gas Markets and the Prospect of US LNG Exports” – *2014 Energy Director’s Conference*, Rice University Jones School of Business, Houston, TX (Mar 26, 2014)
- “Recent Trends & Emerging Fundamentals: An Outlook for Global Gas Markets” – GDF Suez Global Executive Leadership Team, Houston, Texas (March 7, 2014)
- “Recent Developments in Oil and Gas” – Panel Discussion, Texas Energy Symposium, George W. Bush Library, SMU, Dallas, Texas (March 6, 2014)
- “An Outlook for the Global Crude Oil Market” – VAALCO Board of Directors, Houston, Texas (March 5, 2014)
- “Natural Gas Price in Asia: What to Expect” – Paper presentation, Non-proliferation Education Center Conference, Honolulu, Hawaii (February 27, 2014)
- “U.S. Crude Oil Exports: Implications for Gasoline Price and Energy Security” – Workshop presentation, Columbia University, New York City, New York (February 25, 2014)
- “The Geopolitics of Gas – Harvard-Rice Study: Initial Modeling Results” – *The Geopolitics of Gas* Conference, James A. Baker III Institute for Public Policy, Rice University, Houston, Texas (February 21, 2014)
- “Global Dependency on Energy” – *Jones School Thought Leadership Series*, Jones Graduate School of Business, Rice University, Houston, Texas (February 18, 2014)
- “Global Implications of Shale Gas for International Market Development” – *The QP-Rice Natural Gas Program* Conference, QP Headquarters, Doha, Qatar (February 4, 2014)
- “Global Natural Gas: Market in Transition – The Impacts of U.S. LNG Exports” – *The Australian American Chamber of Commerce 6th Annual Energy Conference*, Houston, Texas (January 30, 2014)
- “Energy’s Crossroads: Pinedale, WY” – *The Rational Middle* Panel Discussion hosted by ERM, Houston, Texas (January 29, 2014)
- “Recent Trends & Emerging Fundamentals: An Outlook for Global Energy Markets” – Presentation to ExxonMobil Procurement Leadership Team, Houston, Texas (January 29, 2014)
- “Is the Past a Prelude to the Future?” – *The Industry-Rice Earth Science Symposium Conference*, Rice University, Houston, Texas (January 23, 2014)
- “Field Safety in Oil and Gas Operations” – FTI-Ansell Roundtable Discussion (January 15, 2014)
- “Some Economic and Geopolitical Implications for Shale” – Naval War College, James A. Baker III Institute for Public Policy, Houston, Texas (January 14, 2014)
- “Oil and Gas in Mexico at a Crossroads? Reform and the Path Forward” – *Mexico: Security Challenges Impacting Private Sector Operations Conference*, James A. Baker III Institute for Public Policy, Houston, Texas (January 7, 2014)
- “Challenges and Opportunities” – *2014 Mexican Unconventionals Opportunities Symposium* Panel Chair, Petroleum Club, Houston, Texas (January 7, 2014)

2013

- “Emerging Natural Gas Fundamentals: LNG Exports and Other Margins of Response,” USAEE Luncheon Keynote, Houston, TX (December 12, 2013)

- “What Volume of US LNG Exports is in the ‘Public Interest?’”, Panel Moderator, *Zeus North American LNG Exports Conference*, Houston, TX (December 11, 2013)
- “Global Natural Gas Markets: Recent Trends, Emerging Fundamentals and US LNG Opportunities,” *3rd Annual Small-to-Midscale LNG Conference*, Houston, TX (November 20, 2013)
- Texas Monthly Talks: Will the Shale Boom Last?*, Panel Discussion, James A Baker III Institute for Public Policy, Rice University, Houston, TX (November 19, 2013)
- “Global Natural Gas Markets: Transitions in Markets and Geopolitics,” *BP/Tufts Fletcher School/Harvard Kennedy School Symposium on Energy, Security, and Climate Policy*, Boston, MA (November 14-15, 2013)
- “Energy Reform in Mexico: Promise, Potential, and Reality,” Challenges and Opportunities for Shale Gas Panel, *Mexico’s Energy Reform: Powering the Future*, James A Baker III Institute for Public Policy, Rice University, Houston, TX (October 31, 2013)
- “Natural Gas Trade and US Exports – Key Insights from Scenario Analysis,” *Energy Modeling Forum Natural Gas Meeting*, Washington, DC (October 30, 2013)
- “Oil Market Outlook: Recent Trends and Emerging Fundamentals” – *Deep Offshore Technology Conference 2013*, Woodlands, Texas (October 22, 2013)
- “Market Outlook: The Impacts of Shale Oil and Shale Gas,” *OPEC Technical Meeting*, Vienna, Austria (September 24, 2013)
- “The Outlook for Natural Gas,” Morning Address, *High Horsepower Summit 2013*, Chicago, IL (September 18, 2013)
- “Shale Boom’s Remaking of Electricity, Transportation and Manufacturing Markets,” Luncheon Keynote Presentation, *Governors’ Policy Forum on Shale Energy Development*, Denver, CO (September 10, 2013)
- “Energy Intensity: The Effects of Structural and Technological Change,” *Energy Productivity: Counting What Counts*, hosted by the King Abdullah Petroleum Studies and Research Center, London, UK (September 3-5, 2013)
- “Globalization and Energy Markets,” Keynote, *Accenture Energy Hub*, Petroleum Club, Houston, TX (August 21, 2013)
- Panel Discussion, *Geopolitical Impacts of Shale Gas*, Bipartisan Policy Center, *New Geopolitics of Petroleum and Natural Gas – U.S. Shale Gas Boom: Implications for the U.S. Economy, Trade, and Geopolitics*, Washington, DC (July 25, 2013)
- “The Global Gas Supply Curve...” *Informing the Next Generation of Natural Gas Research*, International Gas Markets Panel, Resources for the Future, Washington, DC (July 11, 2013)
- “Shale Gas, the U.S. Energy Transition, and Emerging Gas Market Fundamentals,” presentation to NiSource Executive Leadership, Houston, TX (July 10, 2013)
- “The Role of Shale Gas in the U.S. Energy Transition: Recoverable Resources, Production Rates, and Implications,” *BNP Paribas Investor Conference Call* (July 9, 2013)
- Plenary Session Moderator, *Unconventional Oil and Gas Development*, *32nd USAEE/IAEE North American Conference*, Anchorage, Alaska (June 29, 2013)
- “The Global Implications of Shale,” *Natural Gas Markets* Plenary Session Presentation, *32nd USAEE/IAEE North American Conference*, Anchorage, Alaska (June 28, 2013)
- “Recent Developments in Oil and Gas” – Presentation to Trinity Industries Management, Dallas, Texas (June 27, 2013)
- “US LNG Exports and the Global Implications of US Shale: Understanding the US Market First” – *Natural Gas Plenary Session*, *36th Annual IAEE International Conference*, Daegu, South Korea (June 16-20, 2013)
- “What Does Shale Mean?” – Panel Discussion, *South Texas Money Management 2013 Energy Symposium*, San Antonio, TX (June 13, 2013)
- “A Structural Approach to Oil Prices: A Role for Speculation and Fundamentals?” – *Energy Market Globalization: Investment and Commodity Price Cycles and the Role of Geopolitics*, James A Baker III Institute for Public Policy, Rice University, Houston, TX (June 12, 2013)
- “The Implications of Shale: Well Behavior and Demand Response” – Keynote, *Metal Service Center Institute Annual Meeting*, San Antonio, TX (June 10, 2013)
- “Shale and the North American Upstream Renaissance” – Keynote, *International Society for Automation Power Industry Division’s Annual Symposium*, Orlando, FL (June 3, 2013)

- “Panel Analysis of Well Performance in the Barnett Shale” – Seminar, University of West Australia, Perth, WA, Australia (May 27, 2013)
- “Shale and the North American Upstream Renaissance” – *Curtin Corner*, John Curtin Institute for Public Policy, Curtin University, Perth, WA, Australia (May 24, 2013)
- “Shale and the North American Upstream Renaissance” – Keynote, *Tejas Club Breakfast*, Houston, TX (May 16, 2013)
- “The Prospect and Impact of US LNG Exports” – *Platts 6th Annual Midstream Development & Management Conference*, Houston, TX (May 9, 2013)
- “The International Implications of Shale” – Breakfast Keynote, West University Rotary Club, Houston, TX (May 9, 2013)
- “A Discussion of the International Implications of Shale” – Keynote, Dinner hosted by the American Enterprise Institute and the Nonproliferation Policy Education Center, Washington, DC (May 2, 2013)
- “Shale Gas: Well Behavior, Demand Response and Exports” – Seminar, NREL-JISEA, Golden, CO (April 25, 2013)
- “A Brief Discussion of US LNG Exports in an International Context” – Keynote, *Council of State Governors Policy Academy on the Fundamentals of Natural Gas Development*, Houston, TX (April 19, 2013)
- “US LNG Exports in an International Context” – *Encana Distinguished Lecture*, University of Colorado at Denver, Denver, CO (April 15, 2013)
- “Energy in the Food, Energy, Water Nexus” – Panel Discussion, *Powering Progress Together Forum* hosted by Shell, Houston, TX (April 4, 2013)
- “A Broad Economic Perspective for Energy Today” – Panel discussion opening comments/moderator, 5th Annual Energy Director’s Conference, Rice University, Houston, TX (March 26, 2013)
- “The North American Upstream Renaissance: A Perspective on Global Markets and Geopolitics” – Baker Hughes Distinguished Lecture, Houston, TX (March 19, 2013)
- “The Center for Energy Studies at the James A Baker III Institute for Public Policy: A Multi-Disciplinary Piece of the Rice Energy and Environment Initiative” – *Captain Baker Society Luncheon*, Rice University, Houston, TX (March 14, 2013)
- “Some Economic and Geopolitical Implications of Shale” – *GDF SUEZ Energy North America Executive Offsite Meeting*, Austin, TX (February 22, 2013)
- “Crude Oil and Natural Gas Prices: A Tenuous Relationship?” – UC-Davis Workshop, *Exploring Options for Natural Gas in Transportation*, Davis, CA (February 4, 2013)
- “Some Economic and Geopolitical Implications of Shale” – *Accenture Strategy Connect*, Houston, TX (January 25, 2013)
- “US LNG Exports: Truth and Consequence” – NCAC/USAAE Luncheon Keynote, Washington, DC (January 11, 2013)

2012

- “Shale Gas, Emerging Fundamentals, and Geopolitics” – ExxonMobil Luncheon Keynote, Houston, TX (December 12, 2012)
- “Hydrocarbon Scarcity or Abundance?” – *Statoil Strategy Advisory Council*, Washington, DC (November 29, 2012)
- “Shale Gas and Emerging Fundamentals” – *Total Energy USA*, Houston, TX (November 27, 2012)
- “Mapping the Future – Alternative Fuel and Transportation Policy in TX and the US” – *H-GAC 2012 Clean Fleet Technologies Conference*, Houston, TX (November 15, 2012)
- “A Discussion of US LNG Exports in an International Context” – *Small Scale LNG Summit*, Houston, TX (November 13, 2012)
- “Issues facing the next U.S. President” – *World Presidents’ Organization Panel Discussion*, James A Baker III Institute for Public Policy, Houston, TX (November 12, 2012)
- “Panel Analysis of Well Production History in the Barnett Shale” – *post-Conference Technical Workshop*, 31st USAEE/IAEE North American Conference, Austin, TX (November 4-8, 2012)
- “Mexico’s Unfulfilled Potential – A Discussion of the Recent BIPP Study: Scenarios for Oil Supply, Demand and Net Exports for Mexico” – *Mexico: How to Tap Progress Conference*, Dallas Branch U.S. Federal Reserve Bank (November 2, 2012)

- “Economic ramifications of the interplay between water supply/production and oil and gas development” – *GCAGS Plenary Panel: A Glimpse into the 21st Century, Energy, Economy, Environment and Policy*, Austin, TX (October 22, 2012)
- “U.S. Natural Gas Demand: Traditional and New End-Uses” – *Oil and Gas Workshop*, Council on Foreign Relations (October 18-19, 2012)
- “Rational Middle” – *Panel Discussion: Houston Film Premiere*, Houston TX (October 17, 2012)
- “A Brief Discussion of Issues in Global Energy Markets” – *Tudor, Pickering, Holt & Co. “Individual & Family Owned” Upstream Oil & Gas Conference*, Houston, TX (September 27, 2012)
- “A Discussion of US LNG Exports in an International Context” – *2012 Interstate Pipeline Regulatory Committee Annual Meeting*, Williamsburg, PA (September 18, 2012)
- “U.S. LNG Exports: Truth and Consequence” – Center for LNG Board of Directors Meeting (September 13, 2012)
- “U.S. LNG Exports: Truth and Consequence” – Luncheon Presentation to the USAEE Houston Chapter, Houston, TX (Sept 12, 2012)
- “The Implications of Shale” – *British Consulate General Energy Roundtable*, Houston, TX (September 6-7, 2012)
- “Shale Gas, Emerging Fundamentals, and Geopolitics” – Presentation to Trinity Industries Management, Dallas, Texas (August 30, 2012)
- “A Discussion of US LNG Exports in an International Context” – EIA International Natural Gas Workshop: *LNG Exports and the Future International Natural Gas Market*, Washington DC (August 23, 2012)
- “Unconventional Oil and Gas: New Market Realities and Shifting Geopolitics” – Oil Field Breakfast Forum, Houston, Texas (July 20, 2012)
- “International Oil and Gas Markets: The Emerging Impacts of Shale” – 35th International IAEE Conference, Perth, Australia (June 24, 2012)
- “The End of Peak Oil?” – Australian Institute of Energy, Luncheon Keynote, Perth, Australia (June 19, 2012)
- “Australia and the Future Global Energy Balance” – Haydn Williams Lecture, Curtin University, Perth, Australia (June 15, 2012)
- “Shale Gas, Emerging Fundamentals, and Geopolitics” – Curtin Institute for Minerals and Energy, Breakfast Keynote, Perth, Australia (June 14, 2012)
- “Shale Gas and Emerging Fundamentals” – Presentation to the Portuguese Foreign Minister, EDPR, Houston, Texas (June 8, 2012)
- “Shale Gas, Emerging Fundamentals, and Geopolitics” – Presentation to Norway Energy Minister, Norwegian Foreign Ministry, Houston, Texas (June 4, 2012)
- “Shale Gas, Emerging Fundamentals, and Geopolitics” – SPE-GCS Luncheon Keynote, Petroleum Club, Houston, Texas (May 10, 2012)
- “How Energy and Manufacturing Innovation is Leading the Way” – GE Manufacturing Panel, Houston, Texas (May 8, 2012)
- “A Career in Energy” – Westchester Academy for International Studies, Career Day, Houston, Texas (May 3, 2012)
- “An Oil and Gas Renaissance: Scale and Scope” – US Unconventional Oil & Gas Boom: National Security Implications, NIC/Eurasia Group, Washington DC (April 30, 2012)
- “Natural Gas and Global Transformations” – Energy, Mining & Natural Resources PRACTice Group, Pacific Rim Advisory Council, Baker Botts (April 24, 2012)
- “Energy Policy in the US” – 3rd Annual PBESS Subsurface Energy Storage Industry Roundtable, Houston, Texas (March 23, 2012)
- “The Prospect of North American Exports” – Energy Council, Washington, DC (March 10, 2012)
- “Shale Gas” – Presentation to Trinity Industries Management, Dallas, Texas (Jan 27, 2012)

2011

- “The Global Impact of Shale Gas Development” – Presentation at the Deloitte Oil and Gas Conference (Dec 15, 2011)
- “The Geopolitical and Economic Impact of Global Shale Gas Development” – Leadership Briefing at ConocoPhillips, Houston, Texas (Nov 28, 2012)

- “The Global Impact of Shale Gas Development”– Presentation to the Baker Institute Associate Roundtable Membership, Houston, Texas (Nov 3, 2011)
- “The Global Impact of Shale Gas Development”– Presentation to the BASF strategy group (Nov 1, 2011)
- “The Impact of Shale Gas Development on the Geopolitical and Macroeconomic Landscape”– Keynote Presentation at the Rice Energy Finance Summit, Jones School of Business, Houston, Texas (Oct 26, 2011)
- “Modeling Global Gas Markets: Important Factors for any Analysis”– Presentation to Stanford’s EMF 26, Washington, DC (Oct 25, 2011)
- “Natural Gas and Crude Oil price: A Constantly Shifting Paradigm”– Presentation to Murphy Oil executive committee, Austin, Texas (Oct 13, 2011)
- “Discussion of the Reference Case of the California Energy Commission IEPR Study” – Presentation at the California Energy Commission Modeling Workshop, Sacramento, California (Sept 27, 2011)
- “Shale Gas”– Presentation at the NABE 53rd Annual Meeting, *New Horizons for the Global Economic Landscape*, Dallas, Texas (Sept 13, 2011)
- “Shale Gas and U.S. National Security”–Luncheon Presentation to the USAEE Houston Chapter, Houston, Texas (Sept 8, 2011)
- “The Future of Natural Gas”– Presentation to Haddington Ventures Investor Community, Half Moon Bay, California (Aug 29, 2011)
- “The Future of Natural Gas: A View from the Baker Institute”– Presentation to GenOn Board of Directors, Houston, Texas (Aug 2, 2011)
- “Shale Gas and U.S. National Security”– Presentation to the U.S. Department of Energy Office of International Policy and Affairs, Washington, DC (May 4, 2011)
- “Natural Gas Prices and the Global Gas Outlook” – South Texas Money Management, Ltd. *2011 Energy Symposium: Will Shale Gas Rock the World?*, San Antonio, Texas (April 27, 2011)
- “Discussion of the Reference Case of the RWGTM” – Presentation at the California Energy Commission Modeling Workshop (April 19, 2011)
- “Economic Determinants of the Global Natural Gas Balance” – *American Association of Petroleum Geologists Annual Meeting* (April 12, 2011)
- “Energy Economics” – Presentation at the University of Oklahoma Department of Economics, Norman, Oklahoma (March 9, 2011)
- “Price Volatility” – National Petroleum Council Coordinating Sub-Committee, 2010-2011 National Petroleum Council Study (Feb 18, 2011)
- “The Impact of Shale Gas Development on Global Gas Markets: A Focus on North America” – Shell North America Leadership Team, Houston, Texas (Feb 17, 2011)
- “The Impact of Shale Gas Development on Global Gas Markets” – Dallas Geologic Society, Dallas, Texas (Jan 11, 2011)
- Session Chair, “Topics in Energy Modeling” – IAEE Session at the ASSA/AEA Annual Meetings, Denver, CO (Jan 5, 2010)

2010

- “Natural Gas Market Consequences of Emerging Renewable and Carbon Dioxide Abatement Policies in the U.S.” – Chevron Headquarters, San Ramon, California (Dec 14, 2010)
- “Shale Gas Development in North America and Emerging Global Market Dynamics” – The Energy Council’s 2010 Global Energy and Environment Issues Conference, Santa Fe, New Mexico (Dec 10, 2010)
- “LNG, Shale, and Emerging Market Dynamics” – Society of Petroleum Engineers Westside Study Group Luncheon, Houston, Texas (Oct 20, 2010)
- “Shale Gas and Emerging Market Dynamics” – Plenary Session at 30th Annual Conference of the United States Association for Energy Economics, Calgary, Alberta, Canada (Oct 14-16, 2010)
- “Shale Gas in the Rice World Gas Trade Model – A Discussion of Unconstrained Results” – Shell Global Gas Executives Meeting, Houston, Texas (Oct 11, 2010)
- “Natural Gas Price Volatility” – Presentation at the National Petroleum Council Demand Task Group Meeting (Oct 7, 2010)

- “LNG, Shale, and Emerging Market Dynamics” – Jesse H. Jones Graduate School of Business, Lecture to Jacobs University MBA Students (Oct 6, 2010)
- “Energy Market Consequences of Emerging Renewable and Carbon Dioxide Abatement Policies in the United States: A Focus on Natural Gas” – *Energy Market Consequences of Emerging Renewable and Carbon Dioxide Abatement Policies in the United States* Capstone Conference, James A Baker III Institute for Public Policy, Rice University, Houston, Texas (Sept 28, 2010)
- “Energy Market Consequences of Emerging Renewable and Carbon Dioxide Abatement Policies in the United States” – *Energy Market Consequences of Emerging Renewable and Carbon Dioxide Abatement Policies in the United States* Capstone Conference, James A Baker III Institute for Public Policy, Rice University, Houston, Texas (Sept 27, 2010)
- “Natural Gas Demand in North America” – University of Texas Bureau of Economic Geology Natural Gas Workshop (Aug 24-25, 2010)
- “Energy Market Consequences of Emerging Renewable and Carbon Dioxide Abatement Policies in the U.S.” – Rice Engineering and Construction Forum, Houston, Texas (Aug 13, 2010)
- “The Rice World Gas Trade Model: A Discussion of Unconstrained Results” – Presentation to ConocoPhillips LNG group, Houston, Texas (July 26, 2010)
- “The Price of Crude Oil: Speculation and Market Fundamentals” – Plenary Session Presentation at the 33rd Annual IAEE International Energy Conference, Rio de Janeiro, Brazil (June 7-10, 2010)
- “Shaping the Energy Future: The Emerging Role of Australia” – *A Panel Discussion on Liquefied Natural Gas and Australia’s Evolving Role in East Asian Energy Markets* at Asia Society Annual Meeting, Houston, Texas (June 2, 2010)
- “The Shale Revolution: What it means for North America and the World” – Seminar at the Dallas Federal Reserve Bank, Dallas, Texas (May 27, 2010)
- “Natural Gas Supply in North America” – University of Texas Bureau of Economic Geology Natural Gas Workshop (May 24-25, 2010)
- “LNG, Globalization, and Price Volatility” – Presentation to the National Commission on Energy Policy *Task Force on Ensuring Stable Natural Gas Markets*, Washington, D.C. (May 20, 2010)
- “The Emergence of Shale Gas and What it Means for the Global Natural Gas Market” – South Texas Money Management, Ltd. *2010 Energy Symposium The Texas Gold Rush: How Has the Shale Game Shifted Energy Dynamics?* (May 13, 2010)
- “Global Implications for Natural Gas Markets of the Emergence of Shale Plays” – Society of Petroleum Engineers Luncheon Speaker, Houston, Texas (April 28, 2010)
- “How Does Natural Gas Differ from Oil?” – Panel Discussion at the Council on Foreign Relations Workshop on Reassessing Energy Security for Oil and Gas, New York, New York (April 12-13, 2010)
- “The Geopolitics of Shale Gas” – *36th Annual Ernest E. Smith Oil, Gas & Mineral Law Conference*, University of Texas, Austin, Texas (April 9, 2010)
- “Economics of the Oilfield” – *Oil 101: A Comprehensive Overview of Oil and Gas Production*, Houston, Texas (March 30, 2010)
- “The Shale Gas Revolution and What It Means for Global Energy Markets” – Presentation at the Baker Institute Roundtable: *Energy Market Consequences of an Emerging U.S. Carbon Management Policy*, Abu Dhabi, UAE (March 2, 2010)
- “Understanding the Economics and Key Design Issues Underlying Cap and Trade” – University of Texas School of Law, *2010 UT Carbon and Climate Conference*, Austin, Texas (Feb 18, 2010)
- “The Shale Revolution and What it Means for North American Energy Markets and Policy” – Seminar at Union College, Schenectady, New York (Feb 3, 2010)
- “Some Comments on the Future of Energy: Intersections of Policy, Economics, and Geology” – Lecture at Air Liquide Annual Corporate Retreat (Jan 22, 2010)
- “Redefining North American Gas Markets: The New Role of Shale Gas in Satisfying Energy Demand” – Canadian Institute’s *6th Annual Shale Gas Symposium*, Calgary, Alberta, Canada (Jan 27, 2010)
- Discussant, “Reassessing the Oil Security Premium” by Stephen Brown and Hill Huntington, IAEE Session at the ASSA/AEA Annual Meetings, Atlanta, Georgia (Jan 4, 2010)

2009

- “Energy Market Consequences of a Carbon Management Policy” – Tulane University Executive Speaker Series at the Entergy-Tulane Energy Institute (Dec 1, 2009)
- “Energy Economics – A Brief Overview” – *Energy 101 Workshop* at the Women’s Global Leadership Conference in Energy, Houston, Texas (Nov 4, 2009)
- “The Price of Crude Oil: Speculators or Market Fundamentals” – Louisiana State University Energy Summit, Baton Rouge, Louisiana (Oct 28, 2009)
- “The International Gas Market: Challenges and Opportunities” – AIPN Luncheon, Houston, Texas (Oct 21, 2009)
- “North American Shale Gas, Russia and Europe: An Unexpected Intersection” – *Northeast BC Natural Gas Conference*, Calgary, Alberta, Canada (Sept 30, 2009)
- “Geopolitics and the Market for Arctic Resources” – ExxonMobil Development Company Career Development Luncheon, Houston, Texas (Sept 14, 2009)
- “The History and Politics of Russia’s Relations with OPEC: Economic and Geopolitical Plausibility of a Gas OPEC” – 32nd Annual IAEE International Energy Conference, San Francisco, California, USA (June 21-24, 2009)
- “The Rice World Gas Trade Model” – Workshop at the California Energy Commission, Sacramento, California (June 16, 2009)
- “The Future of LNG Trade” – Jesse H. Jones Graduate School of Business, Lecture to Jacobs University MBA Students (May 14, 2009)
- “Understanding Oil and Gas Markets” – Port Region’s Educational Seminar Series, *Exploring Financial Options in Today’s Economy*, Pasadena, Texas (May 5, 2009)
- “A Study Synopsis – Scenarios for Russian Natural Gas Exports: The Role of Domestic Investment, the Caspian, and LNG” – *Oil, Natural Gas and Geopolitical Conflict in the Current Economic Climate*, James A Baker III Institute for Public Policy, Rice University, Houston, Texas (April 29, 2009)
- “Oil and Gas – A Retrospective Outlook” – Keynote Address to the Quorum Group Oil and Gas Symposium, Houston, Texas (April 21, 2009)
- “Scenarios for Russian Natural Gas Exports: The Role of Domestic Investment, the Caspian, and LNG” – Russia and the Caspian States in the Global Energy Balance, Moscow, Russia (March 20, 2009)
- “Energy in the United States: Prospects for the Future” – Rice University Alumni Weekend Seminar, Houston Texas (March 14, 2009)
- “The Outlook for North American Gas” – 5th Annual Pipeline Opportunities Conference, Houston, Texas, Oildom Publishing Company (March 11, 2009)
- “The Energy Component of the Current Crisis” – *How to Interpret and Respond to the Current Financial and Economic Crises*, Buddha’s Light International Association, Chung Mei Temple, Stafford, Texas (Feb 28, 2009)
- “The Impact of North American Shale Gas in the RWGTM” - Presentation to El Paso Corporation Executive Group (Jan 28, 2009)
- “The Outlook for Energy in North America” – Breakfast Panel Discussion, CEO 21 – Houston Economic Roundtable, hosted by Pannell Kerr Forster, P.C. of Texas (Jan 28, 2009)
- “Exploiting Bolivia’s Natural Gas Resources” – *Resource Rents and the Economics of the Public Sector in Developing and Post-Transition Economies*, ACES/AEA Session at the ASSA/AEA Annual Meeting in San Francisco, California (Jan 4, 2009)

2008

- “The Price of Crude Oil and a Stock Flow Model” – Tulane University Executive Speaker Series at the Entergy-Tulane Energy Institute (Dec 1, 2008)
- “Energy in the United States: Prospects for the Future” – Rice University Homecoming Lecture (Nov 7, 2008)
- “Excerpts from ‘The Emerging Role of National Oil Companies’” – *The Shifting Balance of Power: Impact on NOC, IOC and Service Company Investment Strategies*, Energy Executives

- Operational Insights hosted by Gulf Publishing and Ernst & Young, Houston, Texas (Oct 21, 2008)
- "Presidential Candidates' Energy Positions and Energy Industry Outlook" – *USAEE Luncheon Address*, Courtyard on St. James Place, Houston, Texas (Oct 16, 2008)
- "The Future of North American Energy: Reacting to a Changing Environment" – *Energize Your Morning*, Informatica/Microstrategy Industry Breakfast, Calgary, Alberta (Oct 9, 2008)
- "Considerations for North American Energy in a Global Context" – *American Owner's of Mineral Resources Annual Conference* hosted by Blackstone Minerals, Houston, Texas (Oct 2, 2008)
- "Turkey's Future as an International Natural Gas Hub" – 31st Annual IAEE International Energy Conference, Istanbul, Turkey (June 17-21, 2008)
- "The Future of Russian Natural Gas Exports" – *The Global Energy Market: Comprehensive Strategies to Meet Geopolitical and Financial Risks*, James A Baker III Institute for Public Policy, Houston, Texas (May 21, 2008)
- "The Future Role of the National Oil Company" – API Luncheon Keynote, Houston, TX (April 22, 2008)
- "The Future of Russian Natural Gas Exports" – *Current Issues in Russian Energy Policy & Politics*, Workshop sponsored by the Duke Center for International Development and the Carnegie Endowment for International Peace, Duke University, North Carolina (April 3, 2008)
- "Energy Security and Climate Change Policy: Risks and Opportunities for the Middle East" – *Enriching The Middle East's Economic Future III Conference, Panel: Integrating Energy, Foreign Policy and Security*, UCLA Center for Middle East Development, Doha, Qatar (March 9-11, 2008)
- "Climate Policy and Alternative Energy: Potential Impacts on the Middle East" – *Middle East Energy 2008: Risk and Responsibility: The New Realities of Energy Supply*, Chatham House, London, England (Feb 4-5, 2008)

2007

- "Global Energy in the 21st Century" session Moderator and discussion leader of membership closing session, *United States Energy in a Global Context*, The Philosophical Society of Texas Annual Meeting (Dec 7-9, 2007)
- "The Future Role of National Oil Companies" – Tulane University Executive Speaker Series at the Entergy-Tulane Energy Institute (Dec 6, 2007)
- "North American Security of Natural Gas Supply in a Global Market" – Conference at the James A Baker III Institute for Public Policy, Rice University, Houston, Texas (Nov 16, 2007)
- "Russian gas supply: implications for NE Asia and Europe" – *Global Energy: Policy Needs and Priorities*, hosted by the Windsor Energy Group (Nov 6, 2007)
- "World Natural Gas Outlook" – *US Energy Policy in a World of Rising Energy Demand and Constrained Supply*, Global Oil & Gas Conference, Sponsored by the Center for the Study of Energy and Environmental Stewardship and the Life Cycle Institute of The Catholic University of America, Catholic University of America (Nov 1, 2007)
- "The Price of Gasoline: Where We have Been, Where We Are Going, and What You Can Do" – Families Weekend Lecture, Rice University, Houston, Texas (Oct 19, 2007)
- "The Geopolitics of Gas" – Keynote presentation to the Desk and Derrick Club, Houston, Texas (Oct 16, 2007)
- "The Emerging Global Natural Gas Market" – Natural Gas 25 Year Outlook Workshop to the U.S. Army hosted by Booze-Allen-Hamilton, Washington, D.C. (Oct 4, 2007)
- "LNG" – Presiding over Plenary Session at 27th Annual Conference of the United States Association for Energy Economics, Houston, Texas (Sept 16-19, 2007)
- "Market and Policy Issues" – Presiding over Plenary Session at 8th Annual U.S.-China Oil Gas Industry Forum, San Francisco, California (Sept 9-11, 2007)
- "The Outlook for LNG – Think Global" – Market Outlook Workshop for the Valve Manufacturers Association, San Diego, California (August 8-10, 2007)
- "Security of EU Gas Supply" – 9th Annual IAEE/AIEE European Energy Conference, Florence, Italy (June 10-13, 2007)
- "Natural Gas Market Outlook" – RMI Oilfield Breakfast Forum, Houston, Texas (March 22, 2007)

2006

- “Exploring Global Economic Developments and Forecasting Energy Demand; LNG Trading and Market Behavior” – Sparks and Flames, Amsterdam, Netherlands (Dec 2006)
- “The Geopolitics of Natural Gas” – Critical Issues in Energy, An Economic Forum for College and University Faculty, Federal Reserve Bank of Dallas (Nov 2, 2006)
- “The Geopolitics of Energy” – Address at the International Energy Credit Association conference, Palm Desert, California (Oct 2, 2006)
- “Natural Gas in North America” – workshop address at the International Energy Credit Association (IECA) conference, Palm Desert, California (Oct 1, 2006)
- “The Future of World Gas” – Engineering and Construction Forum Roundtable meeting, Rice University (Sept 2006)
- “Oil Prices and Economic Growth in Less Developed Countries” – 29th Annual Conference of the International Association for Energy Economics, Potsdam, Germany (June 2006)
- “Insights from the Rice World Gas Trade Model” – 29th Annual Conference of the International Association for Energy Economics, Potsdam, Germany (June 2006)
- “Global LNG Markets” – KPMG Global Energy Conference, Houston, Texas (May 2006)
- “The Geopolitics of Natural Gas” – Energy Integration in North America vis-à-vis South America: Regulation and Geopolitics, UNAM, Mexico City, Mexico (May 2006)
- “Critically Examining the Long Term Picture for LNG: Competition from Coal and Nuclear and the Implications of LNG Market Globalization for Price” – FLAME, Amsterdam, Netherlands (March 2006)

2005

- “A Forward Look at Natural Gas – 2006 and Beyond” – Presentation to management at Direct Energy strategy conference (Nov 3, 2005)
- “A Look at Energy Markets – Past, Present and Future” – Keynote address at the Petroleum Equipment Suppliers Association (PESA) Credit Interchange Division (CID) conference, Marble Falls, Texas (Oct 27, 2005)
- “The Rice World Gas Trade Model: Options for Russian Natural Gas” – 25th Annual Conference of the United States Association for Energy Economics/International Association for Energy Economics, Denver, Colorado (Sept 2005)
- “A Cartel in Natural Gas: Is it Possible?” – 25th Annual Conference of the United States Association for Energy Economics, Denver, Colorado (Sept 2005)
- “The Energy Agenda: Consumers, Natural Gas and the Rockies” – Media event hosted by the American Petroleum Institute, Houston, Texas (May 3, 2005)
- “Natural Gas in Northeast Asia: Opportunities for Regional Cooperation” – Conference hosted by the Shanghai Institute for International Studies, Shanghai, China (July 2005)
- “Energy and Natural Gas in Northeast Asia: China’s Impact” – Conference hosted by the Shanghai Academy of Social Sciences, Shanghai, China (July 2005)
- “Energy and Natural Gas in Northeast Asia: Regional Trends and Implications for Japan” – Workshop hosted by IEEJ, Tokyo, Japan (July 2005)

Pre-2004

- “Energy and Environment in China” – China and Sustainable Development Seminar hosted by the Shell Center for Sustainable Development, Rice University, Houston, Texas (Sept 2004)
- “Natural Gas in Northeast Asia” – National Intelligence Council workshop hosted by the Eurasia Group (Sept 2004)
- “A Global Market for Natural Gas? Prospects to 2035” – Conference on “Geopolitics of Natural Gas” at the James A Baker III Institute for Public Policy, Rice University, Houston, Texas (May 2004)
- “The Energy Security Value of Nuclear Power in Japan” – Workshop for Tokyo Electric Power Company, Tokyo, Japan (April 2004)
- “Conventional Versus Innovative Technologies in the Transportation Sector: External Costs and Benefits” – 26th Annual Conference of the International Association for Energy Economics (IAEE), Prague, Czech Republic (June 2003)

- “The Future of Energy Trade in Asia” – 7th Annual Conference of the Emirates Center for Strategic Studies and Research (ECSSR), The Energy Markets in East Asia, Abu Dhabi, UAE (Jan 2002)
- “Controlling Carbon Dioxide: An Analysis of Competing Marginal Effects” - 24th Annual Conference of the International Association for Energy Economics (IAEE), Houston, Texas (April 2001)
- “Residential Energy Demand in the OECD - Patterns of Economic Development” - 21st Annual North American Conference of the United States Association for Energy Economics (USAEE), Philadelphia, Pennsylvania (Sept 2000)
- “Controlling Carbon Dioxide - Let's Wait and See” - Conference on *Global Warming Science and Policy* at the James A Baker Institute III Institute for Public Policy, Rice University, Houston, Texas (Sept 2000)
- “The Urgency of Controlling CO2 Emissions” – 23rd Annual International Association for Energy Economics Conference, Sydney, Australia (June 2000)
- “Energy Demand in Japan – The Implications of Future Development in an Industrialized Nation” – Baker Institute Energy Forum Workshop on East Asian Energy Markets and Energy Cooperation in Northeast Asia (Oct 1999)
- “The Relationship between Economic Development and Energy Demand in Asia” – 22nd Annual International Association for Energy Economics Conference, Rome, Italy (June 1999)
- “The Effect of Oil Price Volatility on Technical Change” – 19th Annual United States Association for Energy Economics/International Association for Energy Economics Conference, Albuquerque, New Mexico, (Oct 1998)
- “The Relationship between Economic Development and Automobile Ownership” – 21st Annual International Association for Energy Economics Conference, Quebec City, Quebec, Canada (May 1998)
- “Economic Structure, the Level of Development and Energy Demand” – 18th Annual United States Association for Energy Economics/International Association for Energy Economics Conference, San Francisco, California, (Sept 1997)

Consulting Activities

All consulting is related to modeling energy markets or advising on published works and modeling frameworks – Chevron Corporation, California Energy Commission, US Department of Energy, Bipartisan Policy Commission, US Department of Justice, Congressional Budget Office, Non-proliferation Education Center

Teaching Experience

Energy Economics I, Energy Economics II, Economics of the Energy Industries, Macroeconomic Theory, Principles of Macroeconomics, Mathematical Economics
 Senior Independent Research (53 Thesis Submissions)
 Doctoral Dissertations (19 Thesis Committees)

Media

Interviews appearing in *Bloomberg, New York Times, Wall Street Journal, Forbes, Oil and Gas Investor, USA Today, Minneapolis Star Tribune, San Francisco Chronicle, Congressional Quarterly, Financial Times, Fortune, Hard Assets Investors online, BusinessWeek, Wirtschaftswoche, Platts Gas Daily, Platts Oil Daily, Kallanish Energy, Natural Gas Intelligence Weekly, Time Magazine, Boston Globe, Dallas Morning News, Times-Picayune, Detroit Free Press, Houston Chronicle, San Antonio Express* and others.

Various television and radio appearances.