

## **Kenneth B. Medlock III, PhD**

Rice University, Economics Department – MS 22, P.O. Box 1892, Houston, TX 77251-1892  
Office: 713-348-3757      Mobile: 713-443-5259      Fax: 713-348-5278  
e-mail: [medlock@rice.edu](mailto:medlock@rice.edu)

### **Current Positions**

James A Baker III and Susan G Baker Fellow in Energy and Resource Economics, James A Baker III  
Institute for Public Policy, Rice University  
Deputy Director, Energy Forum, James A Baker III Institute for Public Policy, Rice University  
Adjunct Professor, Economics Department, Rice University

### **Fields**

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

### **Education**

Ph.D. – Economics, Rice University, May 2000  
“Essays on Economic Development, Energy Consumption, and the Environment”  
M.A. – Economics, Rice University, 1999  
B.S. – Economics, (minor Anthropology), University of Houston, 1995

### **Awards/Memberships/Affiliations**

Council Member of the International Association for Energy Economics, 2010-2011  
Who’s Who in America, 2009-  
Outstanding Paper in *The Energy Journal* in 2001, awarded by the International Association for  
Energy Economics  
Member of Association for Comparative Economic Studies (ACES)  
Member of International Association for Energy Economics (IAEE)  
Member of American Economic Association (AEA)  
Member of American Association for the Advancement of Science (AAAS)

### **Publications**

#### ***Peer Reviewed***

- “Empirical Evidence of the Efficiency of National Oil Companies” with Stacy Eller and Peter Hartley, *Empirical Economics*, (March 2010)
- “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)
- “LNG Trading Evolves” in *Fundamentals of the World Gas Industry*, Petroleum Economist (June 2006)
- “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)

#### ***Working Papers and Papers in Review***

- “Innovation, Renewable Energy, and Macroeconomic Growth” with Peter Hartley, Ted Temzelides and Xinya Zhang
- “Climate policy and energy security: two sides of the same coin?” with Peter Hartley (in revision)
- “The UK-Qatar Natural Gas Trade and Energy Security” (in review for volume at *RUSI*)
- “Exploiting Bolivia's Natural Gas Resources” with Peter Hartley
- “Crude Oil and the Price of Gasoline: Short Run Departures from Long Run Equilibrium”
- “An Econometric Evaluation of the Demand for Natural Gas in the Power Generation and Industrial Sectors” with Peter Hartley and Jennifer Rosthal
- “Forecasting Long Run Energy Demand: Sector Trends and Economic Development” with Stacy Eller
- “A Cartel in Natural Gas: Is it Possible?”
- “The Effect of Oil Price Volatility on Technical Change” with Weiyu Gao and Robin Sickles
- “Carbon Dioxide: A Limit to Growth?” with Peter Hartley

#### ***Government and Industry Group Studies/Publications***

- “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)
- Facing the Hard Truths*, Contributing author/study participant, LNG Subgroup and Peak Oil Deliberations, National Petroleum Council (2007)
- 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)
- Balancing Natural Gas Policy*, National Petroleum Council, Lead modeler and contributing author, Modeling Subgroup of the Supply Task group (2003)

#### ***Baker Institute Studies and Papers***

- “Innovation, Renewable Energy, and Macroeconomic Growth” with Peter Hartley, Ted Temzelides and Xinya Zhang published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (September 2010)
- “Energy Market Consequences of Emerging Renewable Energy and Carbon Dioxide Abatement Policies in the United States” with Peter Hartley published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (September 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 published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (January 2010).
- “Who’s in the Oil Futures Market and How has it Changed?” with Amy Myers Jaffe, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (August 2009).
- “Scenarios for Russian Natural Gas Exports: The Role of Domestic Investment, the Caspian, and LNG” with Peter Hartley published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (May 2009)
- “The Future of Russian Natural Gas Exports” with Peter Hartley, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (May 2008)
- “Climate policy and energy security: two sides of the same coin?” with Peter Hartley, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (May 2008)
- “Energy Security in a Context of Hyper-Social Mobilization: Insights from Bolivia” with David Mares and Peter Hartley, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (May 2008)
- “U.S. Energy Policy and Transportation” with Amy Jaffe, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (May 2008)
- “Iran, Energy and Geopolitics” with Daniel Brumberg, Jareer Elass and Amy Jaffe, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (May 2008)
- “North American Security of Natural Gas Supply in a Global Market” with Peter Hartley, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (November 2007)
- “The Relationship between Crude Oil and Natural Gas Prices” with Peter Hartley and Jennifer Rosthal, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (November 2007)
- “Electricity Sector Demand for Natural Gas in the United States” with Peter Hartley and Jennifer Rosthal, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (November 2007)
- “International Influences on the Link between US Crude Oil and Natural Gas Prices” with Peter Hartley and Amy Jaffe, published as a Baker Institute Study and available online at [www.rice.edu/energy](http://www.rice.edu/energy) (November 2007)
- “A Technical Note on the Relationship between Crude Oil and Gasoline Prices” available at [http://www.rice.edu/energy/publications/WorkingPapers/Technical\\_Note\\_on\\_Long\\_Run\\_Gas\\_Price.pdf](http://www.rice.edu/energy/publications/WorkingPapers/Technical_Note_on_Long_Run_Gas_Price.pdf) (October 2007)
- “Russian Natural Gas Supply: Some Implications for Japan” with Peter Hartley, published as part of the Baker Institute Study The Energy Dimension in Russian Global Strategy, available online at [www.rice.edu/energy](http://www.rice.edu/energy) (October 2004)
- “The Role of Nuclear Power in Enhancing Japan’s Energy Security” with Peter Hartley, Baker Institute Study Number 26, available online at [www.rice.edu/energy](http://www.rice.edu/energy) (September 2004)
- “Energy Demand in Latin America to 2015” with Ron Soligo, published as part of a Baker Institute Research Grant from the Center for International Political Economy (2002)
- “Energy Demand in Japan to 2015” with Ron Soligo, published as part of a Baker Institute Research Grant from the Center for International Political Economy (2000)
- “The Relationship between Economic Development and Energy Demand in China” with Ron Soligo, published as part of a Baker Institute Research Grant from the Center for International Political Economy (1999)
- “First Things First – Economic Development and Global Warming” with Peter Hartley and Michael Warby, published as part of a Baker Institute Research Grant from the Center for International Political Economy (1999)

#### ***Opinion Pieces and Other Publications***

- “Shale Gas: A Game Changer with Global Implications” published under What We’re Thinking at <http://www.bakerinstitute.org/opinions> (October 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* (April 2009)

- “U.S. Gasoline Policy: Recommendations for the Next President” published under What We’re Thinking at <http://www.bakerinstitute.org/opinions>, also published in the *Houston Chronicle* (January 2009)
- “Speculation: A Cause or Symptom?” published under What We’re Thinking at <http://www.bakerinstitute.org/opinions> (September 2008)
- “The OCS Leasing Moratorium: Which Way Forward?” published under What We’re Thinking at <http://www.bakerinstitute.org/opinions>, also published in *Houston Chronicle* (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 at [http://www.bakerinstitute.org/publications/WWT\\_USEnergyFAQ\\_020408-1.pdf](http://www.bakerinstitute.org/publications/WWT_USEnergyFAQ_020408-1.pdf) (February 2008)
- “Gas FAQ: US Gasoline Markets and US Oil Import Dependence” with Amy Jaffe, available at [http://www.bakerinstitute.org/publications/WWT\\_USEnergyFAQ\\_020408-1.pdf](http://www.bakerinstitute.org/publications/WWT_USEnergyFAQ_020408-1.pdf) (September 2007)
- “You, Your Car and U.S. Energy Policy: Things You Need to Know” with Amy Jaffe, published in *AAA magazine* regional distribution (September/October 2007)
- “The Price of Gasoline: How High for How Long?” published under What We’re Thinking at [http://www.bakerinstitute.org/whatwerethinking/what\\_were\\_thinking.cfm](http://www.bakerinstitute.org/whatwerethinking/what_were_thinking.cfm) (September 2007)

## Presentations

### 2010

- “LNG, Shale, and Emerging Market Dynamics” – Society of Petroleum Engineers Westside Study Group Luncheon, Houston, Texas (October 20, 2010)
- “Shale Gas and Emerging Market Dynamics” – Plenary Session at 30<sup>th</sup> Annual Conference of the United States Association for Energy Economics, Calgary, Alberta, Canada (October 14-16, 2010)
- “Shale Gas in the Rice World Gas Trade Model – A Discussion of Unconstrained Results” – Lecture to Shell Global Gas Executives, Houston, Texas (October 11, 2010)
- “Natural Gas Price Volatility” – Presentation at the National Petroleum Council Demand Task Group Meeting (October 7, 2010)
- “LNG, Shale, and Emerging Market Dynamics” – Jesse H. Jones Graduate School of Business, Lecture to Jacobs University MBA Students (October 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 (September 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 (September 27, 2010)
- “Natural Gas Demand in North America” – University of Texas Bureau of Economic Geology Natural Gas Workshop (August 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 (August 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 33<sup>rd</sup> 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” – *36<sup>th</sup> 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 (February 17-18, 2010)
- “The Shale Revolution and What it Means for North American Energy Markets and Policy” – Seminar at Union College, Schenectady, New York (February 3, 2010)
- “Some Comments on the Future of Energy: Intersections of Policy, Economics, and Geology” – Lecture at Air Liquide Annual Corporate Retreat (January 22, 2010)
- “Redefining North American Gas Markets: The New Role of Shale Gas in Satisfying Energy Demand” – Canadian Institute’s *6<sup>th</sup> Annual Shale Gas Symposium*, Calgary, Alberta, Canada (January 27, 2010)
- Discussant for “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 (December 1, 2009)
- “Energy Economics – A Brief Overview” – *Energy 101 Workshop* at the Women’s Global Leadership Conference in Energy, Houston, Texas (November 4, 2009)
- “The Price of Crude Oil: Speculators or Market Fundamentals” – Louisiana State University Energy Summit, Baton Rouge, Louisiana (October 28, 2009)
- “The International Gas Market: Challenges and Opportunities” – AIPN Luncheon, Houston, Texas (October 21, 2009)
- “North American Shale Gas, Russia and Europe: An Unexpected Intersection” – *Northeast BC Natural Gas Conference*, Calgary, Alberta, Canada (September 30, 2009)
- “Geopolitics and the Market for Arctic Resources” – ExxonMobil Development Company Career Development Luncheon, Houston, Texas (September 14, 2009)
- Plenary Session Coordinator and Presider – 32<sup>nd</sup> Annual IAEE International Energy Conference, San Francisco, California, USA (June 21-24, 2009)
- “The History and Politics of Russia’s Relations with OPEC: Economic and Geopolitical Plausibility of a Gas OPEC” – 32<sup>nd</sup> 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" – 5<sup>th</sup> 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 (February 28, 2009)
- "The Impact of North American Shale Gas in the RWGTM" - Presentation to El Paso Corporation Executive Group (January 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 (January 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 (January 4, 2009)

### 2008

- "The Price of Crude Oil and a Stock Flow Model" – Tulane University Executive Speaker Series at the Entergy-Tulane Energy Institute (December 1, 2008)
- "Energy in the United States: Prospects for the Future" – Rice University Homecoming Lecture (November 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 (October 21, 2008)
- "Presidential Candidates' Energy Positions and Energy Industry Outlook" – *USAEE Luncheon Address*, Courtyard on St. James Place, Houston, Texas (October 16, 2008)
- "The Future of North American Energy: Reacting to a Changing Environment" – *Energize Your Morning*, Informatica/Microstrategy Industry Breakfast, Calgary, Alberta (October 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 (October 2, 2008)
- "Turkey's Future as an International Natural Gas Hub" – 31<sup>st</sup> 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 (February 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 (December 7-9, 2007)

“The Future Role of National Oil Companies” – Tulane University Executive Speaker Series at the Entergy-Tulane Energy Institute (December 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 (November 16, 2007)

“Russian gas supply: implications for NE Asia and Europe” – *Global Energy: Policy Needs and Priorities*, hosted by the Windsor Energy Group (November 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 (November 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 (October 19, 2007)

“The Geopolitics of Gas” – Keynote presentation to the Desk and Derrick Club, Houston, Texas (October 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. (October 4, 2007)

“LNG” – Presiding over Plenary Session at 27<sup>th</sup> Annual Conference of the United States Association for Energy Economics, Houston, Texas (September 16-19, 2007)

“Market and Policy Issues” – Presiding over Plenary Session at 8<sup>th</sup> Annual U.S.-China Oil Gas Industry Forum, San Francisco, California (September 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” – 9<sup>th</sup> Annual IAEE/AIEE European Energy Conference, Florence, Italy (June 10-13, 2007)

“Natural Gas Market Outlook” – RMI Oilfield Breakfast Forum, Houston, Texas (March 22<sup>nd</sup>, 2007)

### 2006

“Exploring Global Economic Developments and Forecasting Energy Demand; LNG Trading and Market Behavior” – Sparks and Flames, Amsterdam, Netherlands (December 2006)

“The Geopolitics of Natural Gas” – Critical Issues in Energy, An Economic Forum for College and University Faculty, Federal Reserve Bank of Dallas (November 2, 2006)

“The Geopolitics of Energy” – Address at the International Energy Credit Association conference, Palm Desert, California (October 2, 2006)

“Natural Gas in North America” – workshop address at the International Energy Credit Association (IECA) conference, Palm Desert, California (October 1, 2006)

“The Future of World Gas” – Engineering and Construction Forum Roundtable meeting, Rice University (September 2006)

“Oil Prices and Economic Growth in Less Developed Countries” – 29<sup>th</sup> Annual Conference of the International Association for Energy Economics, Potsdam, Germany (June 2006)

“Insights from the Rice World Gas Trade Model” – 29<sup>th</sup> 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 (November 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 (October 27, 2005)
- “The Rice World Gas Trade Model: Options for Russian Natural Gas” – 25<sup>th</sup> Annual Conference of the United States Association for Energy Economics/International Association for Energy Economics, Denver, Colorado (September 2005)
- “A Cartel in Natural Gas: Is it Possible?” – 25<sup>th</sup> Annual Conference of the United States Association for Energy Economics, Denver, Colorado (September 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 (September 2004)
- “Natural Gas in Northeast Asia” – National Intelligence Council workshop hosted by the Eurasia Group (September 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” – 26<sup>th</sup> Annual Conference of the International Association for Energy Economics (IAEE), Prague, Czech Republic (June 2003)
- “The Future of Energy Trade in Asia” – 7<sup>th</sup> Annual Conference of the Emirates Center for Strategic Studies and Research (ECSSR), The Energy Markets in East Asia, Abu Dhabi, UAE (January 2002)
- “Controlling Carbon Dioxide: An Analysis of Competing Marginal Effects” - 24<sup>th</sup> Annual Conference of the International Association for Energy Economics (IAEE), Houston, Texas (April 2001)
- “Residential Energy Demand in the OECD - Patterns of Economic Development” - 21<sup>st</sup> Annual North American Conference of the United States Association for Energy Economics (USAE), Philadelphia, Pennsylvania (September 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 (September 2000)
- “The Urgency of Controlling CO<sub>2</sub> Emissions” – 23<sup>rd</sup> 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 (October 1999)
- “The Relationship between Economic Development and Energy Demand in Asia” – 22<sup>nd</sup> Annual International Association for Energy Economics Conference, Rome, Italy (June 1999)

“The Effect of Oil Price Volatility on Technical Change” – 19<sup>th</sup> Annual United States Association for Energy Economics/International Association for Energy Economics Conference, Albuquerque, New Mexico, (October 1998)

“The Relationship between Economic Development and Automobile Ownership” – 21<sup>st</sup> Annual International Association for Energy Economics Conference, Quebec City, Quebec, Canada (May 1998)

“Economic Structure, the Level of Development and Energy Demand” – 18<sup>th</sup> Annual United States Association for Energy Economics/International Association for Energy Economics Conference, San Francisco, California, (September 1997)

### **Teaching Experience**

Energy Economics I, Energy Economics II, Economics of the Energy Industries, Macroeconomic Theory, Principles of Macroeconomics, Mathematical Economics, Environmental and Resource Economics (Guest Lecturer)

Senior Independent Research (46 Thesis Submissions)

Doctoral Dissertations (8 Thesis Committees)

### **Media**

Interviews appearing in *USA Today*, *Minneapolis Star Tribune*, *San Francisco Chronicle*, *Congressional Quarterly*, *Financial Times*, *Fortune*, *Hard Assets Investors* online, *BusinessWeek*, *New York Times*, *Wall Street Journal*, *Wirtschaftswoche*, *Platts Gas Daily*, *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.