



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



### *Regulatory issues of global significance for the gas industry*

Members of the International Confederation of Energy Regulators (ICER) and the International Gas Union (IGU) want to promote cooperation and understanding between the two organisations. This joint one-day workshop will allow representatives of ICER, the IGU and honoured guests to share views and discuss concerns about regulatory issues of global significance for the gas industry.

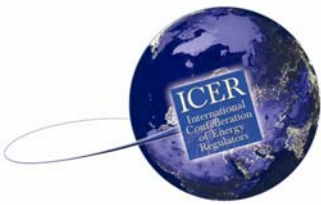
Attendance is by invitation-only from the ICER Chair Lord John Mogg and the IGU President Datuk Rahim Hashim and will be limited to 100 participants. The workshop will start with presidential introductions of the aims of the two organisations, before turning to four key topics that recognise the importance of natural gas in sustaining future global growth in the context of the challenges posed by climate change and supply security:

- **Interaction between regulators and companies active in the natural gas business** to learn from best practices in consultation or rulemaking procedures, and future developments in the scope and approach of policy and regulation;
- **Regulatory influences on international investment** to promote competition, meet necessary safety and environmental standards and deliver supply-demand security, through international pipelines, regional integration and the global LNG market;
- **Regulation and gas price formation** in an era of international gas trade and shale gas expansion, to consider issues of affordability, sustainability, competitiveness, legacy contracts and spot markets; and
- **Environmental aspects of natural gas** to explore how regulators and industry can work together to develop practical and meaningful solutions in the context of climate change and environmental considerations related to natural gas, including landowner issues, unconventional gas, etc.).

The Moderators and Presenters for each session will be senior representatives from ICER and the IGU, plus some honoured guests. The format will be short presentations on each topic, followed by discussion of the key points, aiming to establish a shared global perspective.

The workshop will take place at the offices of Hogan Lovells LLP, in Washington DC, USA, on Tuesday 8<sup>th</sup> March 2011 from 08h30 to 17h00. Hogan Lovells will kindly provide lunch and refreshments for workshop participants. There is no fee for participation, but delegates will need to cover their own travel and accommodation expenses. **Early application for a place at the joint workshop is highly recommended. In addition, accommodations in Washington D.C. are highly sought after, and early bookings are strongly encouraged.** For further information about participation, please contact the IGU, Mr. Harry Whitaker ([Harry.Whitaker@bg-group.com](mailto:Harry.Whitaker@bg-group.com)).

By way of conclusion, the IGU and ICER will produce a closing statement which will provide a summary of the key points from the day's discussions, as well as any agreed actions that ICER or IGU would separately or jointly pursue. This will be reported in various ways and could be followed up at the 5th World Forum on Energy Regulation (WFER V) and the IGU World Gas Conference in 2012.



# Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



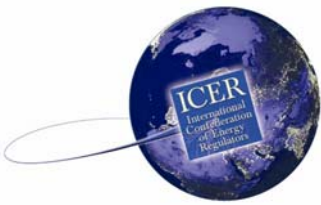
## *Regulatory issues of global significance for the gas industry*

**08h30 – 17h00**

Offices of Hogan Lovells  
Columbia Square  
555 Thirteenth Street, NW  
Washington DC, USA

### **Agenda**

<b>Time</b>	<b>Session</b>	<b>Moderator/Speakers</b>
08:30	Registration and Continental Breakfast	
09:15	<b>Welcome</b>	<b>Mr. Robert Skaggs</b> , NiSource, CEO and Immediate Past Chairman, American Gas Association
09:20	<b>Introducing the International Confederation of Energy Regulators - ICER</b>	<b>Lord John Mogg</b> , ICER, Chair
09:40	<b>Introducing the International Gas Union - IGU</b>	<b>Datuk Abdul Rahim Hashim</b> , IGU, President
10:00	<b>Interaction between regulators and operators</b> <i>As we move towards a more global market for natural gas and away from different regulatory environments at local and national level, new formulae of interaction between regulators and the gas industry should arise, including in the scope and approach to policy and regulation. This session will address questions such as:</i> <ul style="list-style-type: none"><li>▪ Do global gas markets need global regulation?</li><li>▪ What should be the role of regional versus local/ national regulators?</li><li>▪ How can regulatory certainty be built up and what practices can be adopted by regulators and operators to minimise regulatory risk? How can this risk and regulatory quality be measured?</li><li>▪ How can the best regulatory practices be shared among regulators and industry? How can operators help regulators to share and spread best practices worldwide?</li></ul> <i>Open Discussion with Participants</i>	Moderator: <b>Prof. Jean-Michel Glachant</b> , Florence School of Regulation, Director  <b>Mr. Tony Clark</b> , NARUC, President  <b>Mr. Marcel Kramer</b> , South Stream CEO and IGU Regional Coordinator, Europe & CIS  <b>Mr Wilson "Dub" Crook</b> , ExxonMobil Gas & Power Marketing Company, Manager, Global Gas Regulatory & Legislative Issues



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



11:15 Tea and Coffee

### 11:45 Regulatory influences on international investment

*Regulation of the gas industry and its investment decisions must take into account many factors, including market growth and competition, security of supply, efficiency, environmental policy and the implications in terms of costs for consumers. A 'fair return' for business and regulation that goes with the grain of the market can impact on the situation of international pipelines, LNG development and the process of regional integration worldwide, among others. This session will consider:*

- How can regulation enhance security of gas supply and help to create a safer environment worldwide? How also to reconcile consumer interests (i.e. costs) with other factors?
- How can investment be enhanced in developing countries and in mature regions, keeping in mind local risks?
- What is a "fair return" in different projects and geographical areas? How can gas operators get a fair return on investments in markets facing greater global risks? And how do regulatory risk and fair return relate?
- Could regulators help to streamline permitting procedures?

*Open Discussion with Participants*

Moderator: **Mr. Joseph Kelliher**, NextEra Energy, Executive Vice President, (former FERC Chairman)

**Mr. Carlo Crea**, AEEG Italy, Secretary General and ICER SoS Virtual Working Group, Chair

**Mr. Abdulla Ahmad Al-Hussaini**, QATARGAS Portfolio Optimisation Manager

**Mr. Robert Lesnick**, World Bank, Oil and Gas Program Coordinator

13:00 Lunch

### 13:45 Regulation and gas price formation

*Traditionally, gas price formation includes three elements: costs of exploration and production, competition with oil and market price controls. Price formation models vary worldwide and different factors from both the regulation and gas industry sides can influence them, including affordability, sustainability, competitiveness, legacy contracts, etc. Greater harmonisation of business practices and regulation can contribute to promoting more transparent and liquid markets and sustainable economic growth in an era of international gas trade and shale gas expansion. This session will examine:*

- What can regulators and gas companies do to encourage a liquid LNG trade and global gas markets? How should regulation adapt to the globalisation of gas markets?
- What will be the impact of new gas markets (e.g. shale gas, LNG) on price formation? What could be the impact of a new energy mix (with more renewable energies and greater environmental protection) on gas prices?
- What is the role of regulators in national and regional price formation?

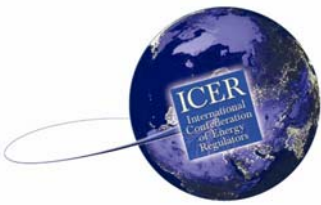
*Open Discussion with Participants*

Moderator: **Dr. Branko Terzic**, Deloitte Services LP, Regulatory Policy Leader, Energy & Resources and former FERC Commissioner

**Dr. Michael Thomadakis**, Regulatory Authority for Energy, Board Member

**Mr. Yutaka Shirakawa**, Tokyo Gas Co., Ltd. New York Representative Office, General manager

**Mr. Mike Fulwood**, Nexant, Principal Gas Analyst and IGU Wholesale Gas Price Formation Leader



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



15:00 Tea and Coffee

15:30 **Environmental aspects of natural gas**

*Regulators and industry can work together to develop practical and meaningful solutions in the context of climate change and environmental considerations related to natural gas. Natural gas will have a role to play in a low-carbon world alongside renewable energy sources, for example by providing electricity supply when wind energy and solar energy are not available. The siting of natural gas infrastructure (and related landowner issues) and the use of unconventional gas also raise questions regarding the place of natural gas in a new global environment protection context. This session will look at:*

- What is the future role of natural gas in a low-carbon world? How can the gas industry contribute to mitigate climate change?
- What is the role of regulators and operators in the fight against climate change? What do policy makers expect of regulators and operators – and can they deliver?
- Is there a conflict between natural gas and renewable energy?
- Does unconventional gas have an environmental impact? What about the siting of gas infrastructure?

*Open Discussion with Participants*

16:45 **Summary and Wrap Up**

17:00 **Close followed by a cocktail reception**

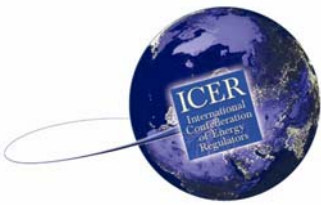
Moderator: **Mr. Peter Gurnham**, Nova Scotia Utility and Review Board, Chair

**Mr. Jon Wellinghoff**, FERC, Chairman

**Mr. Alexander Medvedev**, GAZPROM, Deputy Chairman (tbc)

**Mr. Torstein Indrebø**, IGU, Secretary General

**Datuk Abdul Rahim Hashim & Lord John Mogg**



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA

### Hosts and Speakers



**Lord Mogg KCMG** heads up Europe's energy regulators. Since December 2005, he is Chairman of the European Regulators Group for Electricity and Gas (ERGEG). ERGEG was set up by the European Commission as its advisory group on energy issues. Lord Mogg is also the President of the Council of European Energy Regulators (CEER), the body which the energy regulators themselves set up on their own initiative. A new EU body, the Agency for the Cooperation of Energy Regulators (ACER), was created under EU legislation in 2009. On 4 May 2010, Lord Mogg was elected the first Chair of ACER's Board of Regulators. He is also the non-executive Chair of Ofgem, the GB energy regulatory authority, since 1 October 2003.

Lord Mogg is the founding Chair of the International Confederation of Energy Regulators (ICER). ICER, established in October 2009, represents more than 200 energy regulators worldwide.

He was the Director General, Internal Market and Financial Services at the European Commission for the previous 10 years, following a period as the Deputy Director General, Industry, again at the European Commission, from 1990 to 1993. He previously held posts in the British civil service including Deputy Head, European Secretariat in the Cabinet Office; and Principal Private Secretary to three Secretaries of State.

John Mogg was knighted by the Queen in 2003 and elevated in June 2008 to the House of Lords.

Chair of the International Confederation of Energy Regulators (ICER)  
Chair of the Europe's energy regulators (CEER, ERGEG)  
Chair of Board of Regulators of Agency for Cooperation of Energy Regulators (ACER)  
Chair of the Great Britain's energy regulatory authority, Ofgem



**Datuk (Dr.) Abdul Rahim Hashim**, currently President, International Gas Union for the triennium 2009–2010, has held a number of high-profile positions of increasing responsibility, including Managing Director & Chief Executive Officer of Petronas Oil Refinery (Melaka) Sdn Bhd and Managing Director & Chief Executive Officer of Malaysian Refining Company Sdn Bhd (MRC).

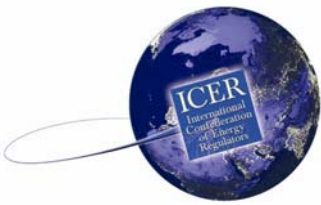
In his career path in higher management at Petronas, Dr. Rahim held the positions of Vice-President of Human Resource Management, Vice President for Gas Business, and Vice President of the Research & Technology Division of Petronas, the post he held until end of 2008. He also held several key positions in a variety of gas industry organizations, both in

Malaysia and at an international level including helming the presidency of the Asia Pacific Natural Gas Vehicle Association (ANGVA).



**Robert Skaggs** has been the Chief Executive Officer of Ni Source, Inc since July 2005 and President of the Company since October 2004. Prior thereto, Mr. Skaggs served as Executive Vice President, Regulated Revenue from October 2003 to October 2004,

President of Columbia Gas of Ohio, Inc. from February 1997 to October 2003; President of Columbia Gas of Kentucky, Inc. from January 1997 to October 2003; President of Bay State Gas Company and Northern Utilities from November 2000 to October 2003; and President of Columbia Gas of Virginia, Inc., Columbia Gas of Maryland, Inc. and Columbia Gas of Pennsylvania, Inc. from December 2001 to October 2003.



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



**Jean-Michel Glachant** took his Master's degree and Ph.D. in economics at La Sorbonne in France. His Ph.D. was published by the Presses de La Sorbonne. After having been employed by the industry and private sector he became assistant professor at La Sorbonne (1981), associate professor and finally full professor (1999).

He left La Sorbonne for University Paris Sud in Autumn 2000 where he took the direction of the department of economics and founded the research team 'Groupe Réseaux Jean Monnet' and later the European Erasmus Mundus Master EMIN (Economics and management of network industries).

He has been advisor of DG TREN, DG COMP & DG RESEARCH at the European Commission and of the French Energy Regulatory Commission (CRE). He is or has been coordinator or scientific advisor of several European research projects (SESSA, CESSA, Reliance, EU-DEEP, RefGov). He is a research partner in the CEEPR at MIT (USA), the EPRG at Cambridge University, the EEI at the University of Leuven and the GIS Larsen at University Paris Sud.



**Tony Clark** was first elected to the Public Service Commission in November 2000. He was re-elected in 2006.

Tony holds the PSC portfolio on electric generation and transmission. As such, he is active in state and regional efforts to develop North Dakota's vast energy exporting potential and provide affordable, reliable energy to consumers. Since joining the Commission, Tony has overseen regulatory proceedings that have facilitated over three billion dollars in new investment in North Dakota through expanded wind, coal and oil and gas infrastructure.

At the same time North Dakota has maintained its position as one of the lowest cost energy states in the nation, and continues its tradition of excellence in environmental protection. In November 2010, he was elected by his peers across the nation to serve a one-year term as President of the National Association of Regulatory Utility Commissioners (NARUC). As such, he leads association efforts on matters of importance to the regulatory community and America's utility consumers. He regularly interacts with other state and federal policy makers, and key stakeholders within academia, public interest groups, and the media. He is a past Chairman of the NARUC Telecommunications Committee. He has testified multiple times before committees of the U.S. Senate and the U.S. House of Representatives on matters related to telecommunications and energy.

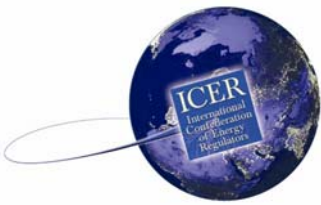
Prior to his election he was North Dakota's Labor Commissioner, serving in the cabinet of former Gov. Ed Schafer. He is a former state legislator, representing District 44 (Fargo) in the state House from 1994-97. He holds bachelor's degrees from North Dakota State University and an MPA from the University of North Dakota.

Having attained the rank of Eagle Scout as a youth, he maintains his involvement with and support of the Scouting program. He is a past Chairman of the Frontier Trails District of the BSA. He currently serves as the Cubmaster of Pack 180 in Bismarck, and is a member of the Northern Lights Council Executive Board.



**Marcel Kramer**, a Dutch national resident in Switzerland, has been directing the South Stream pipeline project since September 2010.

His long career in the energy business began in the mid-70s when, immediately after graduating from the Faculty of Law of Nijmegen University, he took up a role in the Department of Oil & Coal at the Ministry of Economic Affairs of the Netherlands. From 1979 Mr. Kramer held a number of international energy-related positions. He worked in this field at NATO Headquarters in Brussels; subsequently he headed the Oil Industry Division at the International Energy Agency in Paris. His next move (1988) was to Canada, where he spent almost four years in Calgary as Director of Crude Oil Supply and Trading in Petro-Canada. In 1992 he returned to Europe to work for Statoil, which saw him take up several key management positions in Norway, Bangkok, Singapore and Caracas over a period of twelve years. In 2003, Mr Kramer joined Gasunie in The Netherlands and he was appointed Chairman and CEO in 2005. At the time of his retirement from Gasunie, in the Summer of 2010, Mr Kramer was awarded the title of Officer in the Order of Orange-Nassau by Her Majesty Queen Beatrix of the Netherlands, in recognition of corporate and social achievements for the benefit of the country. At the same time, he was invited by the CEO of Gazprom to lead the South Stream pipeline project.



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



Marcel Kramer is the current President of the Royal Dutch Gas Association, and is also professionally involved in several international energy-related organisations, such as the International Gas Union and the International Association of Energy Economists. He is a member of the Supervisory Board of Royal Boskalis Westminster, a major internationally active dredging and towage company based in The Netherlands, listed on the stock exchange AEX.



**Wilson W. ("Dub") Crook** was named Manager for Global Gas Regulatory & Legislative Issues for the ExxonMobil Gas & Power Marketing Company in December, 1999. In his position, he is responsible for coordinating all of ExxonMobil's regulatory and legislative activities in natural gas worldwide.

Mr. Crook joined Mobil Corporation in 1977. In August, 1994 he was named Director of Natural Gas for Latin America. He was responsible for the commercial development of Mobil's South American gas assets, the creation and implementation of Mobil's gas strategy for the region, and in developing new markets for two large Argentine producing properties as well as the commercial development of large discoveries in Peru and Bolivia.

Prior to focusing on Latin America, Mr. Crook was a Vice President in Mobil Power. He also headed Mobil's long-term gas sales program in the northeast United States. In addition, he has had extensive service in the international coal market focusing on sales to power producers throughout the Pacific Rim. Previously, Mr. Crook served as Senior Exploration Mineralogist for Mobil's minerals division in which he worked on projects around the globe involving copper, diamonds, gold, lead, zinc, titanium and uranium.

Mr. Crook holds both a Bachelor of Science degree from Southern Methodist University and a Master of Science degree from the University of Michigan in the field of mineralogy. He has authored over 110 professional papers in the subjects of mineralogy, geology, archaeology, Soviet manned space exploration, and natural science.



**Joseph T. Kelliher** is Executive Vice President – Federal Regulatory Affairs for NextEra Energy, Inc. In this role, he is responsible for managing federal regulatory matters for NextEra Energy and its principal subsidiaries, NextEra Energy Resources and Florida Power & Light Company.

Mr. Kelliher served as Chairman of the Federal Energy Regulatory Commission (FERC) from 2005 to 2009. In that role, he served as the chief executive officer of the agency, managing 1,400 employees and a \$260 million annual budget. Among the highlights of his chairmanship was efficient implementation of the Energy Policy Act of 2005, the largest expansion in FERC regulatory authority since the 1930s. This law gave FERC a new mission to assure reliability of the interstate power grid, granted the agency strong enforcement authority for the first time, and expanded FERC authority in other areas. Chairman Kelliher pursued a series of reforms to promote competitive wholesale power and natural gas markets, improve FERC economic regulation, and strengthen the U.S. energy infrastructure.

Mr. Kelliher has spent his entire professional career working on energy policy matters, serving in a variety of roles in both the public and private sectors. These include senior policy advisor to the Secretary of Energy, and majority counsel to the House Commerce Committee, as well as positions with private corporations, trade associations, and law firms.

In 2010, the U.S. Department of Energy (DOE) named Mr. Kelliher a member of its Electricity Advisory Committee. The Committee will advise DOE on a wide range of policy and technical issues including smart grid, renewables, transmission matters and emerging issues.

Mr. Kelliher earned a bachelor of science degree from Georgetown University, School of Foreign Service, and a juris doctor degree, magna cum laude, from The American University Washington College of Law.



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



**Carlo Crea**, from 2005, is the Secretary General of the Italian Regulatory Authority for Electricity and Gas (AEEG), where he coordinates the activities the Authority keeps with national and international institutions as well planning and strategic control. He is also responsible for press and events involving the Authority.

He has a first class degree in Law and attended postgraduate courses in Civil and commercial law (1984), Advanced School of Public Administration (1989), International Cooperation, S.S.P.A. (1995) and Marketing Strategies, SDA Bocconi (2000).

Before AEEG he was Head of International Affairs in GRTN (Italian independent electricity system operator); before, he held management positions within EDISON S.p.A. ( Director of European Institutional Relations and later on, Assistant to CEO), and within the Italian Ministry of Industry and Trade (Legal Adviser, Oil Division, and Executive for Foreign Affairs Division of General Directorate of Energy Sources).

With reference to the international Institutions, he is the Project Leader of both Twinning Electricity and Gas Projects with Ukraine; he is one of the co-founders of MEDREG (Association of the Mediterranean Regulators for Electricity and Gas) and participates to most forums/meetings requiring the intervention of a representative of the AEEG. He is President of IERN (International Energy Regulation Network), Chairman of the VWG Security of Supply (SoS) at ICER (International Confederation of Energy Regulators) and alternate member of the Board of Regulators of ACER, Agency for the Cooperation of Energy Regulators.

### Mr Abdulla Ahmad al-Hussaini



**Robert M. Lesnick** is currently Oil and Gas Program Coordinator for the World Bank within its Oil, Gas and Mining Policy Division. Previously he was a senior manager within ConocoPhillips Global Gas and International Business Development organization. He has over 30 years private sector experience in various energy-related operations, including natural gas processing, petroleum commodity trading and the power generation businesses.

Mr. Lesnick has over 20 years international experience as a manager and lead negotiator for the development of energy infrastructure projects, and has conducted business in more than 80 international locations in 54 countries on 6 continents. In his current assignment Mr. Lesnick manages the development of the business strategy and allocation of resources of the Oil and Gas Policy Unit of the World Bank, including direct oversight of the Petroleum Governance Initiative (Trust Fund). He is responsible for the development of petroleum sector input into World Bank energy and climate change strategies and provides advice on energy policy to strategic government clients.

Mr. Lesnick has served on the Management Committee for the Centre for Liquefied Natural Gas (CLNG), a coalition of over 60 natural gas companies and trade associations and was Vice President, Communications and Executive Committee member of the Association of International Petroleum Negotiators (AIPN) where he was honoured as its President's Award winner in 2010. He is also a member of the Chairman's Club of the United Way, and Sponsor for Medical Bridges Charity.

Mr. Lesnick has received an appointment as an adjunct professor at the Jones Graduate School of Management at Rice University as a lecturer in field of corporate globalization, and has taught in the school's Executive Education Program on the energy business value chain. He is a member of the College of Arts and Letters Advisory Council of Northern Arizona University where he attained his Bachelor of Science degree. He received a MBA from Rice University where he was honoured as a Jones Scholar.





## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



**Dr Branko Terzic** is the Executive Director of the Deloitte Centre for Energy Solutions and Regulatory Policy Leader in Energy & Resources for Deloitte Services LP. Currently also Chairman of the United Nations Economic Commission for Europe (UN ECE) Ad Hoc Group of Experts (AHGE) on Cleaner Electricity Production. Appointed a member, U.S. National Coal Council in 2010 and is former; Chairman, CEO, and President of Yankee Energy System Inc, commissioner Federal Energy Regulatory Commission (FERC), commissioner State of Wisconsin Public Service Commission and Chairman of the State of Wisconsin Racing Board.

Dr. Terzic was elected to the Energy Efficiency Forum Hall of Fame in 2009 and member of the New America Foundation Energy Advisory Council, the Bordeaux Energy Colloquium. His regular columns appear in EUROPEAN ENERGY REVIEW, and ENERGY METRO DESK. A chapter on energy chapter was published in THE WORLD CRISIS (Constable 2008). His articles appear in numerous publications including Electric Perspectives, Public Utility Fortnightly and Oil and Gas Financial Journal. BS in Energy Engineering and an honorary Doctor of Sciences in Engineering and from the University of Wisconsin- Milwaukee. A Professional Engineer, he is a Fellow of the Royal Society for the encouragement of Arts, Manufacture and Commerce (FRSA).



**Michael Thomadakis** was appointed Vice Chairman of the Greek Regulatory Authority for Energy (RAE) in November 2005 and his term, as a Member of the Board, was renewed in December 2010. Before that, he was the Head of the Energy Planning & International Affairs Department of RAE, since 2002. He is a member of the Board of Regulators of ACER, the elected Chairman of the Gas Working Group of the Energy Community Regulatory Board since February 2007 and the elected Chairman of the Investment Group of the Energy Charter Conference, since April 2009. He is also an invited lecturer on natural gas technologies in the Post-Graduate Program of the National Technical University of Athens, since 1997.

Before joining RAE, he was Deputy Head of Department in the Public Gas Corporation of Greece (DEPA SA), responsible for gas transportation contracts and gas transportation planning. After joining DEPA, in 1995, he has been working as the administrator of the Gas Procurement contracts from Russia and Algeria, both pipeline and LNG, on LNG transportation contracts, on the development of underground gas storage, on the derivation of transportation tariffs and for the establishment of the Gas Distribution Companies in Greece.

He has a Mechanical Engineering degree from National Technical University of Athens (1986) and a PhD from the same University (1992), while he has an MBA degree from the Greek Society of Business Administration (2001). He has worked as senior research engineer, in the Mechanical Engineering Department of University of Manchester Institute of Science and Technology, from 1993 to 1995. He is the author of more than 30 papers in scientific journals and conferences and an advisor of the Greek Authorities on issues related to international energy policy.



**Yutaka Shirakawa** joined Tokyo Gas Co., Ltd. in 1988 and now is a general manager of the New York representative office. He graduated from Waseda University in 1988 with a Master of Applied Chemistry. He worked as an engineer at Sodegaura and Negishi LNG receiving terminal, one of the largest and oldest in the world before moving to the resources department to purchase LNG.

He has worked on R&D of LNG facilities and for the IGU as a secretary of the LNG group (PGC.D), from 2006 to 2009.

He has a Master of Business Administration from Yale University in 1995.



**Mike Fulwood** is a Principal in Nexant's Global Gas practice. Mike has over 30 years of experience in the energy industry. Before working as consultant, Mike was a Director at British Gas Transco, and prior to that President of British Gas Americas during which time he oversaw many successful acquisitions and projects including the acquisitions of Metrogas (Argentina), NGC (now Dynegy), the Bolivia – Brazil pipeline and Trinidad LNG project.

Since working as a consultant Mike has undertaken a wide range of projects in the areas of gas distribution, gas transmission, LNG, gas supply and gas trading, covering regulatory matters, gas pricing and tariffs, due diligence, project development, gas sales and transportation contracts, market studies and price forecasting. Mike has also been a member of the International Gas Union's Strategy and Economics committees and is currently Chairman of the Gas Price Formation subgroup. He also speaks widely at gas conferences all over the world, particularly on gas pricing, tariffs and regulatory matters.



## Joint ICER – IGU Workshop 8<sup>th</sup> March 2011, Washington DC, USA



**Peter Gurnham** was appointed as a Member of the Nova Scotia Utility and Review Board on June 5, 2003 and then as Chair on October 23, 2004.

Peter holds bachelor's degrees in Arts (Economics) and Law from Dalhousie University in Halifax and was appointed as a Queen's Counsel in 1998. Prior to his appointment to the Board, he practiced law for 27 years with a regional Atlantic Canada law firm, where he specialized in administrative and regulatory law, and was managing partner for nine years. He also had an active municipal and planning law practice. He is a Past Chair of the Canadian Association of Members of Public Utility Tribunals (CAMPUT). He is a frequent speaker at conferences and seminars and is Co-Chair of the annual Energy Regulation

Course sponsored by CAMPUT and Queens University.

Peter has been active in many community and charitable groups and is a recipient of the Commemorative Medal for the 125th Anniversary of the Canadian Confederation in recognition of service to community.



**Jon Wellinghoff** was named Chairman of the Federal Energy Regulatory Commission (FERC), the agency that oversees wholesale electric transactions and interstate electric transmission and gas transportation in the United States, by President Barack Obama on March 19, 2009. A member of the Commission since 2006, the U.S. Senate reconfirmed him to a full, five-year FERC term in December 2007.

Chairman Wellinghoff is an energy law specialist with more than 34 years experience in the field. Before joining FERC, he was in private practice focusing exclusively on client matters related to renewable energy, energy efficiency and distributed generation. While in the private sector, Chairman Wellinghoff represented an array of clients from federal agencies, renewable developers, and large consumers of power to energy efficient product manufacturers and clean energy advocacy organizations.

Chairman Wellinghoff received his Bachelor's of Science in Mathematics from the University of Nevada, Reno, his Master's in Mathematics from Howard University and his JD from Antioch School of Law.

### Mr Alexander Medvedev



**Mr Torstein Indrebø** earned his degree from the Norwegian School of Economics and Business Administration in 1976 and has degree in Petroleum Taxation from the University of Bergen in 1984.

He joined the Oil and Gas Division of Norsk Hydro in 1980 working with up- and midstream oil and gas projects on the Norwegian continental shelf before being assigned to Mobil Oil in USA in 1985 – 1986.

He held different management positions related to negotiations of sales and transportation agreements of Norwegian gas to the European market prior to being appointed Vice President and Head of Hydro's Oil and Gas office in Brussels, Belgium in 1995 where he stayed until 2001.

In 2001 Mr Indrebø was appointed Vice President Strategy and Business Development, Natural Gas including responsibility for international gas and LNG projects. In the period 2001- 2005 he was the President of the Norwegian Gas Association.

Mr Indrebø was elected Secretary General of the International Gas Union for a six year period in October 2007 and has now transferred the IGU Secretariat to Norway under the sponsorship of Statoil.