



CACS-CAPA Joint Technical Seminar & 2013 CACS Annual Meeting

Time: 9:30-11:50 AM, Saturday, February 23rd, 2013

Venue: American First National Bank
Community Service Room
12th Floor, 9999 Bellaire Blvd, Houston 77036

Agenda

9:30-10:00 AM *Member Registration and Networking*

10:00-10:05 AM *Welcome Address and Introduction of Speaker
Wei Wang, CACS VP, Education
Mu Liu, CAPA Lunch and Learn Committee*

10:05-11:00 AM *Keynote Speech:*

“The Evolving State of Natural Gas”

*Dr. Xiuli Wang
Chief Technology Officer
XGas*

11:10-11:30 AM *2012 Annual Review and Awards
Xiuli Wang, CACS President 2011-2012*

11:30-11:50 AM *Introduction of 2013-2014 Leadership Team
Teng Xu, CACS President 2013-2014*

11:50-12:00AM *Picture Time
All Attendees*

Abstract

In mid-2008 oil prices climbed to almost \$150/barrel, then dropped to around \$40 and now moved back to \$100. Natural gas prices have remained very uneven throughout the world. In the US it sells for about one fourth of its “BTU-parity” with oil. There are many reasons for this situation: the considerable demand destruction in Russia; large new capacity of liquefied natural gas (LNG) in Qatar and elsewhere; and of course, the inertia of the success in shale formation activities in the United States.

Massive new deposits of natural gas are discovered continuously, such as the recent feats in Eastern Mediterranean. The International Energy Agency has suggested that ultimate world recovery is over 30,000 Tcf of natural gas, 300 years of supply at current rate of use.

Price gyrations affect all aspects of the natural gas world including LNG trade, the desirability or lack thereof of arctic pipelines, conventional and, especially unconventional gas production. A significant feature of future gas prices is that they are likely to be technology driven, similar to oil prices, rather than resources driven. Shale production and widely available LNG facilities will unify the price of gas internationally and reduce its seasonality in the not too distant future. It is likely that the United States will be exporting LNG within two years from today to a hungry China and a Russian-dependent Europe. Other modes of transportation, including new versions of compressed natural gas will also be brought into the market to serve niche applications.

About Dr. Xiuli Wang:

Dr. Xiuli Wang is the Vice President of Technology and Chief Technology Officer for XGas, a natural gas conversion and transportation company, and an adjunct professor in the University of Houston. Before her current roles, Dr. Wang spent seven years with BP in both technology and business units with roles as reservoir engineer, completion engineer, lead production engineer, and project manager. She became a specialist on oil and natural gas completions, production, and project management, covering the spectrum from upstream to midstream and downstream. She is the co-author of the books **Advanced Natural Gas Engineering** and **Modern Fracturing - Enhancing Natural Gas Production**, and has a large number of technical publications. She earned a PhD in chemical engineering from the University of Houston. Prior to her immigration to the United States, she earned a BS degree from Dalian University of Technology and a MS degree from Tsinghua University, followed by six years of work with Sinopec. In 2007, Dr. Wang was named the United States Asian American Engineer of the Year. Recently she was selected as one of the Society of Petroleum Engineers (SPE) Distinguished Lecturers for 2013–2014.