

# PTIT Public Training Course

## NATURAL GAS & BUSINESSES IN ITS VALUE CHAIN

(3<sup>rd</sup> to PTIT Series of 6 Courses)

22-24 September, 2007  
11<sup>th</sup> Floor, Suntowers Building B  
Vibhavadi-Rangsit Road, Bangkok

**Khunying Thongtip Ratanarat**  
**Member of PTIT Foundation**  
**Board & Council of Trustee**  
**Petroleum Institute of Thailand**

### COURSE OBJECTIVE:

Thailand's fuel of choice, or is it? Before 1970's, the word Natural Gas was understood by only a handful of people in this country. As Thailand enters its third decade of gas utilization as power generation fuel, NGV, cooking gas, more and more people have come to appreciate the value of this indigenous fuel and its "value chain". Learn about nature of the gas business. Are all gases coming out of the ground the same in quality? Are gas wells going to run dry in the next 20 years? Why is LNG being considered in a country like Thailand? Why is it important to import gas from neighboring countries? Learn how gas is moved from its sources to markets. Understand its important role in the petrochemical business. More important, how gas pricing works, and what gas competes with.

### COURSE OUTLINE:

#### ☑ ASSOCIATED GAS: THE BONUS

- + The Economic Implications of Associated & Non-Associated Gas
- + The Various Gas Streams, C<sub>1</sub> to NGL: Fuel or Feedstocks

#### ☑ GAS DEMAND/SUPPLY IS DISCONNECTED

- + The Resource Base and Supply & Demand Scenarios: World
- + Natural Gas in Asia: Who are the Dominant Players?

#### ☑ GAS TRANSPORT IS AT THE HEART OF GAS BUSINESS

- + How to Get Gas to Market: Pipeline, LNG, GTL
- + Gas Transport and Distribution Economics

#### ☑ GAS MARKETS AND THEIR ECONOMICS

- + The Economics of Gas
- + Inter-fuel Competition
- + The Gas Markets: Power, Industry, Commercial / Residential, LPG and NGV
- + Optimizing the Utilization of Gas

#### ☑ GAS PRICING

- + Gas Pricing Concept

#### ☑ FUTURE DEVELOPMENTS

- + Integrated Regional Development
- + Natural Gas in the 21st Century (by David E. Roberts, BG)



Petroleum Institute of Thailand

**Please register the following delegate(s) for the Public Training Course: 22-24 Sep 07**

**Name** (อังกฤษ) \_\_\_\_\_  
 (ไทย) \_\_\_\_\_

**Position** (อังกฤษ) \_\_\_\_\_  
 (ไทย) \_\_\_\_\_

**Email/อีเมลล์** \_\_\_\_\_

**Tel/โทรศัพท์** \_\_\_\_\_ **Fax/แฟกซ์** \_\_\_\_\_

**Company Name** (อังกฤษ) \_\_\_\_\_  
 (ไทย) \_\_\_\_\_

**Address** (อังกฤษ) \_\_\_\_\_  
 (ไทย) \_\_\_\_\_

**REGISTRATION FEE:**

- Non-PTIT Member** **BHT 33,000 + VAT 2,310 = 35,310**
- PTIT: Full Member** **BHT 23,100 + VAT 1,617 = 24,717**
- PTIT: Ordinary Member** **BHT 26,400 + VAT 1,848 = 28,248**

**E09/2007****PAYMENT DETAILS**

- By crossed cheque or bank draft made payable to **“Petroleum Institute of Thailand”** and mail your payment with this registration form to PTIT.
- Wire transfer into the account of **“Petroleum Institute of Thailand”**  
 Bank Name: Krung Thai Bank Public Co., Ltd. Tax Number: 3108014757  
 Account No. 071-1-02562-2 Branch: Petroleum Authority Swift Code: KRTHTHBK CHIP 007895

**ADMINISTRATIVE DETAILS****Venue:** Suntowers Building B, Viphavadi-Rangsit Road, Bangkok, Thailand Tel: 0 2273 8333 #1013**Course Hours:** 9.00 – 17.00 hrs. (Registration 8.30 hrs.)**Important Note:** Payment is required with registration and must be received prior to the lecture date to guarantee your seat. Walk-in delegates with full payment will only be admitted on the basis of space availability.**Cancellation Policy:** A delegate may be substituted for free of charge. A full refund, less 10% administrative charge, will be given if cancellation is received in writing at least 15 working days prior to the training course. A complete set of documentation and a 50% refund will be given for cancellation is received in writing at least 7 working days prior to the training course. Regrettably, no refund can be made for cancellation received less than 7 days prior to the training course. A complete set of documentation will however be sent to you.**Disclaimer:** PTIT reserves the right to change, substitute or cancel any part of the program.**Enquiries:** Please contact Khun Chutima T. at Tel: +66 2537 3769, +66 2537 3592-8 if you need more information about the lecture, or visit our website at <http://www.ptit.org>**3 Easy Ways to register:** Complete and return your form to Petroleum Institute of Thailand

- Fax: +66 2537 3591
- Email: [chutima@ptit.org](mailto:chutima@ptit.org), [hrd@ptit.org](mailto:hrd@ptit.org)
- Post: 18<sup>th</sup> Floor, PTT Building, 555 Vibhavadi-Rangsit Road, Chatuchak, Bangkok 10900, Thailand

**PTIT TRAINING COURSES 2007: The Hydrocarbon Business Series consists of six courses:**

1. Introduction to Petroleum and Petrochemical Businesses
2. Understanding the Oil Business
3. Natural Gas & Businesses in Its Value Chain
4. Understanding the Petrochemical Industry & the Lurking Issues
5. Get to Know Your Feedstock Opportunities
6. How to Forecast Demand and Price toward Maximizing Profit

***PTIT strongly recommends that the courses should be taken as a whole series (start with No. 1 or No. 2 to No. 6) in the sequence set above in order to maximize understanding and get a clear perspective of the total hydrocarbon business value chain.***