



# 15th Annual Meeting

The meeting place for the Asian refining and petrochemical industry



27–28  
MARCH  
2012  
MILLENNIUM HILTON  
BANGKOK

## CONFERENCE HIGHLIGHTS

- Opening scene-setting address by **Leo Drollas, Director and Chief Economist, Centre for Global Energy Studies**
- **Case study** presentations from the region's leading operating companies including, **Thaioil, PetroChina, Petronas** and **PTT**
- Hear from some of the industry's most influential figures with plenary addresses by **Viren Doshi, Head of Global Energy, Senior VP, Booz & Co** and **Paul Kennedy, Vice President, Asia, Solomon Associates**
- Interactive presentations and discussions on **"The outlook and challenges for the Asian refining industry"** – with representatives from the region's member countries
- A petrochemical market overview delivered by **Nexant Asia**

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# Welcome

The **ARTC 15th Annual Meeting** is a must-attend event in the downstream industry calendar, every year over 150 senior executives gather to share their thinking, discuss common challenges and renew and create new acquaintances. Learn about the latest technologies and processes, and how they can assist you with your day to day operations. Over the two days at the **ARTC 15th Annual Meeting**, thought leaders and prominent industry figures will share their insights in the latest technologies and what's next for the refining and petrochemical industries.

## **Advisory board to ensure a quality programme:**

Every technical paper has been objectively vetted and critiqued by our advisory board to ensure all the presentations at the conference offer innovative insight and are relevant to your day-to-day operations.

We are delighted to announce that the 2012 ARTC advisory board consists of:

- **Dhanajit Makarananda, BANGCHAK PETROLEUM PUBLIC COMPANY**
- **Chaiwat Damrongmongkolgul, THAI OIL**
- **Li Xuejing, PETROCHINA PETROCHEMICAL RESEARCH INSTITUTE**
- **Shahidah Mohd Shariff, PETRONAS**
- **Mohd Yusri Mohamed Yusof, ETHYLENE AND POLYETHYLENE MALAYSIA**
- **Kuah Huat Hin, CHEVRON**
- **Surachate Chalothorn, RAYONG OLEFINS**

## **Benefits of attending the ARTC 15th Annual Meeting**

- **Hear about the challenges and opportunities that can arise from uncertainties and a high volatility price environment**
- **Discover new processes to realise economic recovery of ethylene from refinery off-gas and ethylene recovery**
- **Achieve capex, opex and yield improvements from improving your hydrocracking process**
- **Learn how to meet the coming H<sub>2</sub>S regulation specifications**
- **Hear about new technologies to maximise your refinery margins**
- **Network with your peers, customers and colleagues alike from refining and petrochemical companies, technology suppliers and consultants from over 20 countries**



**MONDAY 26th MARCH 2012**

18.30 **Welcome Reception**

**DAY 1 TUESDAY 27th MARCH 2012**

08.00 Registration

08.55 **Welcome address**  
Eliot Morton, Director, GLOBAL TECHNOLOGY FORUM

09.00 **Opening keynote address**  
Leo Drollas, Director and Chief Economist, CENTRE FOR GLOBAL ENERGY STUDIES

09.35 **Solomon's insight into the refining industry based on their benchmarking studies**  
Paul Kennedy, Vice President, Asia, SOLOMON ASSOCIATES

10.10 **Keynote address**  
Chaiwat Damrongmongkolgul, Deputy Managing Director Refining, THAI OIL

10.45 Morning break

11.20 **Challenges and opportunities from uncertainties and high volatility price environment in the downstream sector**  
Viren Doshi, Senior Vice President, Head of Global Energy, Chemicals & Utilities, BOOZ & CO

11.55 **A practical look at the biofuel challenge – where the markets and algae are now**  
Senior Executive, GREENPOWER FUELS

12.30 Lunch

**Stream A  
Catalyst technologies and processes**

**Stream B  
Clean fuels and emission reduction technologies**

13.50 **Stream welcome remarks**

**Stream welcome remarks**

13.55 **Advanced low rare earth and rare earth free FCC catalysts are rapidly adopted by refiners**  
GRACE

**Addressing refinery hydrogen emerging needs – Asian focus**  
TECHNIP

14.25 **Novel tools to accelerate catalyst R&D and process development for hydrocracking**  
HTE COMPANY

**Progress of CO<sub>2</sub> reduction in refineries in China**  
PETROCHINA

14.55 Afternoon break

15.25 **Isomalk-2 – A low-temperature, light naphtha isomerization process**  
GTC TECHNOLOGY

**Reduction of FCC NO<sub>x</sub> emissions using novel CO oxidation promoter**  
INTERCAT

15.55 **Technology advancements to assist processing difficult opportunity crudes**  
NALCO

**Commercial experience with KBR ROSE and Shell DAO hydrocracking technologies for residue upgrading**  
SHELL / KBR

16.25 **Optimizing FCC catalyst formulation in a high rare earth cost environment**  
BASF

**FLEXICOKING™: 25 Years of successful operation in refineries**  
EXXONMOBIL

16.55 **Closing remarks**

19.30 **ARTC Gala Dinner**

<b>DAY 2 WEDNESDAY 28th MARCH 2012</b>		
08.20	Morning registration	
08.55	<b>Welcome address</b> Eliot Morton, Director, GLOBAL TECHNOLOGY FORUM	
09.00	<b>A Petrochemical market overview</b> Clive Gibson, Vice President, Energy & Chemicals Consulting: Asia, NEXANT ASIA	
09.30	<b>Keynote address</b> Sukrit Surabotsopon, SEVP Petrochemicals & Refining Business Unit, PTT	
10.00	<b>Panel discussion: Outlook and challenges for the Asian refining industry</b> <i>Panelists to be confirmed</i>	
11.00	Morning break	
	<b>Stream A Petrochemicals</b>	<b>Stream B Operability, reliability, safety and maintenance</b>
	<b>Stream welcome remarks</b>	<b>Stream welcome remarks</b>
11.30	<b>Maximizing propylene via process design and catalyst innovation</b> ALBEMARLE	<b>Squeezing the asset: prolonged DHT operation at 109% of revamped capacity</b> PETRONAS
12.00	<b>FleXene: an integration between FCC unit and oligomerisation units to provide the product flexibility required by the marketplace</b> AXENS	<b>The profitability formula – using compact heat exchangers</b> ALFA LAVAL
12.30	<b>Introductions to Ole-SIV, new adsorption process for efficient olefin recovery and production</b> SK-KBR	<b>Open-loop real-time optimization of refinery utility system in Thairoil</b> THAIOIL / INVENSYS
13.00	Lunch	
14.00	<b>Steam cracker optimization through SPYRO® rigorous kinetic models and on-line TOPNIR™ analysis</b> TOPNIR	<b>Achieving operations excellence in hydrocarbon and chemicals business</b> SIEMENS
	<b>Stream A Transportation fuel technologies</b>	<b>Stream B Operability, reliability, safety and maintenance</b>
14.30	<b>A drop-in renewable diesel for automotive engines</b> PTT / UOP	<b>Improving plant reliability through an energy reduction and optimisation programme</b> KBC
15.00	Afternoon break	
15.30	<b>Can Asian refiners meet the coming H<sub>2</sub>S specification?</b> GE	<b>Hydrocracker design – reduce cost get more distillate</b> HALDOR TOPSOE
16.00	<b>Application of commercially proven technologies to maximize residue conversion and refinery margins</b> FOSTER WHEELER	<b>The jigsaw puzzle mindset: process safety excellence by piecing the missing parts together?</b> DUPONT
16.30	<b>Closing keynote address:</b> <b>The future role of the Asian export market as it meets Europe's increased diesel demand</b>	
17.00	<b>Closing remarks</b> Eliot Morton, Director, GLOBAL TECHNOLOGY FORUM	
17.05	<b>Conference close</b>	

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## Sponsorship enquiries

To raise your profile at the **ARTC 15th Annual Meeting** contact **Eliot Morton**

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## The venue

### Millennium Hilton Bangkok

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Tel: +66-2-442-2000 Fax: +66-2-442-2020

Email: [bkkhi.informations@hilton.com](mailto:bkkhi.informations@hilton.com)

**The hotel is pleased to offer deluxe single rooms at THB 3,200 net/ABF and deluxe double rooms at THB 3,500 net/ABF for ARTC 15th Annual Meeting delegates. Please contact the hotel directly for accommodation arrangement.**



## Companies traditionally represented at ARTC meetings include:

- |                                 |  |
|---------------------------------|--|
| Asian Clean Fuels Association   | Optimal Olefins                        |
| Axens                           | Pertamina                              |
| Azzawiya Oil Refining Co.       | Petrochemical Corporation of Singapore |
| Baker Hughes                    | Petron Corporation                     |
| BASF                            | Petronas                               |
| Consorzio STIA                  | PTT Aromatics and Refining             |
| Ethylene Malaysia               | Purvin & Gertz                         |
| Evonik Degussa                  | Rayong Olefins                         |
| Exelus                          | Shell International                    |
| ExxonMobil                      | Shiraz Oil Refining                    |
| Foster Wheeler                  | Siemens                                |
| GE Water & Process Technologies | Singapore Refining Company             |
| GS Caltex                       | SINOPEC                                |
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| Intercat Europe                 | S-Oil Corporation                      |
| IRPC Public                     | Spiral Software                        |
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| KBC Advanced Technology         | Tricorona                              |
| Kemaman Bitumen Company         | Unicat Catalyst Technologies           |
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