

# ASIA BULK LIQUID STORAGE, TRANSPORTATION & TERMINALS



29 - 31 AUGUST 2007, RAFFLES CITY CONVENTION CENTRE SINGAPORE

## Capitalizing on the Growth of Asia Bulk Liquid Storage Market

### Critical issues to be discussed

- Current Liquid Storage Market and Terminal Values
- Oil Trading in Singapore - Trends, Challenges and Opportunities
- Current Refining Capacity and Future Storage Requirements in Singapore
- Strategic Storage - How will this Impact Security of Supply and Storage Investments
- Present & Future Refinery Scenario in India - Storage Strategy for Refineries and Marketing
- Plans and Activities on Oil Storage, Transportation and Terminals in the Middle East
- Fuel Storage Facility in Indonesia
- Integration of Transport Logistics and Storage
- India Liquid and Gas Tanker Shipping vis-a-vis Global Tanker Market
- Risk Management and Emergency Response Planning for Above Ground Storage Tanks
- Development of Underground Oil Storage Caverns in Asia
- Underground Oil/Gas Storage Caverns in Singapore - Technology, Environmental, Economical and Security Benefits
- Technology on Crude Storage Tank Design, Inspection and Integrity Assessment

**PLUS** Post-Conference Masterclass on 31 August 2007  
**Risk and Reliability Management of Bulk Liquid Storage Terminals**

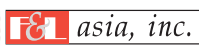
Able led by : S.K.Hazra, *CEO, Aegis Logistics Ltd* and  
Dr P.K.Ghosh, *Director, Safety, Atomic Energy Regulatory Board, Government of India*

### Your distinguished panel of speakers

- Tony Quinn, *Managing Director, Tankbank*
- Robert Viswanathan Chandran, *CEO and Executive Chairman, Chemoil Group of Companies, Singapore*
- S.K.Hazra, *CEO, Aegis Logistics Ltd*
- K.K.Sinha, *CEO, Vadinar Oil Terminal, Essar Oil*
- Erie Soedarmo, *Director of Downstream Oil & Gas Undertaking, Directorate General of Oil & Gas, Department of Energy and Mineral Resources of Indonesia*
- R.K. Singh, *Director, Refineries, Bharat Petroleum Corporation Ltd*
- Graham Towell, *Operations Consultant, Global Storage Agency*
- Michael Sorensen, *Business Development Manager, ALERT Disaster Control (Asia) Pte Ltd*
- Dr Cai Jungang, *Project Director of SINTEF-Tritech-Multiconsult Consortium (Project Management of Jurong Underground Caverns), Rock Mechanics and Cavern Specialist, Trittech Consultants Pte Ltd*
- Stuart Traver, *Senior Manager, Downstream, Gaffney Cline and Associates*
- Gavin Kerr, *Managing Director, Macquarie International Infrastructure Fund*
- Udayan Dasgupta, *General Manager, Engineering, Shriram EPC Ltd*

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Registration

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### About the Conference

As booming Asian oil demand, infrastructure constraints and rising trade flow create a hot market for storage tanks, Singapore has kicked off construction of its first underground oil storage facility to boost the city-state's fuel security and its position as a petrochemicals hub. The Jurong Rock Cavern will boast 1.47 million cubic meters of oil storage space when ready and commissioned in 2011. Oil traders are also investing or expanding their tank storage capacity. These facilities will help enhance Singapore's position as a leading chemicals hub, which is now one of the world's top three refining centers and the third largest oil trading hub and bunker port.

High oil price coupled with the robust inter-regional oil trade are, however, not only sparking off more investments in Singapore's oil storage sector, but also other Asia countries like China, and Indonesia.

The conference will discuss the growth of the bulk liquid storage market in Asia, upcoming plans & activities on tank storage and terminals development, and challenges & strategies for continuous growth. The event will also equip you with an understanding on optimization of distribution and transportation of petroleum products, technical operations including construction of underground storage caverns, tank inspection and maintenance, and risk management issues.

Mark the above dates in your calendar. We look forward to meeting you at the conference !

### Target Audience

Refineries, Oil, Chemical & Petrochemical Companies, Independent Storage Terminal Operators, Oil Traders, Shipping and Transportation Managers, Terminal Managers, Supply Chain Managers, Logistics Managers, Tank Engineers, HSE Engineers, Contractors.

### Sponsorship/Exhibition Opportunities

Sponsorship/Exhibition Opportunities are available! Take advantage of this exclusive gathering of high-level personnel by raising your profile through contributing a paper or through promoting your services and products at this premier event. Comprehensive packages can be tailored to meet your promotional needs and budgets.

For more information, please contact Janice Tan at Tel : 65-68355126 or email: Janice.tan@ibcasia.com.sg

## Day One, Wednesday, 29 August 2007

8.15 Registration and Morning Coffee

9.00 Chairman's Opening Remarks

**Tony Quinn, Managing Director, Tankbank**

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### OIL STORAGE MARKET DEVELOPMENT

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9.05 Current Liquid Storage Market and Terminal Values

- Current global trends in oil / chemical storage
- The players and their profiles
- New and upcoming terminal developments
- The future of independent storage

**Tony Quinn, Managing Director, Tankbank**

9.45 Oil Trading in Singapore – Trends, Challenges and Opportunities

- Key industry drivers in Asia
- Refining developments
- Storage investment opportunities
- Emerging trends
- Future prospects

**Robert Viswanathan Chandran, CEO and Executive Chairman, Chemoil Group of Companies, Singapore**

10.30 Morning Refreshments

11.00 Case Study : Essar Oil's Plans and Activities on Oil Storage, Transportation and Terminals in India

- Storage demand and developments in India
- Impact of pipeline transportation etc. on storage strategy
- Local standards and regulations
- Strategies for continuous growth

**K.K.Sinha, Chief Executive Officer, Vadinar Oil Terminal, Essar Oil**

11.45 Financing Capital Intensive Storage Tanks Projects

- Financing sources and structures
- Risk assessment and mitigation

**Gavin Kerr, Managing Director, Macquarie International Infrastructure Fund**

12.30 Networking Luncheon

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### OPTIMIZING DISTRIBUTION AND TRANSPORTATION OF PETROLEUM PRODUCTS

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- 2.00 **Bulk Liquid and Gas – Comparing India with International Scenario on Pre-Requisite for Competitiveness**
- India oil and liquid, and gas cargo scenario vis-a-vis global trade scenario
  - India liquid and gas tanker shipping vis-a-vis global tanker market
  - Emerging trade expectations and challenges
- SK Hazra, CEO, Aegis Logistics Ltd**
- 2.45 **Integration of Transport Logistics and Storage**
- Improved logistics and integrated process
  - Effective utilization of truck fleets
  - Transportation and distribution systems optimization methodology
- Graham Towell, Operations Consultant, Global Storage Agency**
- 3.30 **Afternoon Refreshments**
- 4.00 **Panel Discussion  
Outlook on Bulk Liquid Market Development Trends and Practices in Asia in the next 5 years**
- Upcoming storage facilities in Asia
  - Development of new refineries
  - Status of petroleum and chemical storage and logistics development in China coastal regions
  - How oil trading is supporting the building of oil terminals, transportation and refineries
  - Challenges and opportunities
  - Future development trend and direction
- Speakers of the day**
- 4.45 **End of Day One**



- 9.00 **Chairman's Opening Remarks**  
**SK Hazra, CEO, Aegis Logistics Ltd**

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### COUNTRY UPDATE ON STORAGE AND REFINING CAPACITY

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- 9.05 **Current Refining Capacity and Future Storage Requirements in Singapore**
- Demand developments
  - New refining capacity
  - Product pricing
  - New storage capacity requirements
  - Strategic storage - how will this impact security of supply and storage investments
- Stuart Traver, Senior Manager, Downstream, Gaffney Cline and Associates**
- 9.45 **Present & Future Refinery Scenario in India**
- Refining scenario in India
  - Capacity expansion and augmentation (brown/green field)
  - Challenges & opportunities
  - Benchmarking
  - Product quality change mandate
  - New environmental regulations
  - New technology benefits – equipment, storage, transportation, cross country pipelines
  - Exposure to global markets
  - Supply chain optimisation
  - Perspective plans
- R.K. Singh, Director, Refineries, Bharat Petroleum Corporation Ltd**
- 10.30 **Morning Refreshments**
- 11.00 **Fuel Storage Facility in Indonesia**
- Deregulation of downstream sector
  - Current storage situation and capacity in Indonesia
  - Future storage developments
- Erie Soedarmo, Director of Downstream Oil & Gas Undertaking, Directorate General of Oil & Gas, Department of Energy and Mineral Resources of Indonesia**
- 11.45 **Case Study : Plans and Activities on Oil Storage, Transportation and Terminals in the Middle East**
- Storage demand and developments in Middle East
  - Refining capacity update
  - Product pricing
  - Strategies for continuous growth
- Speaker to be advised**

12.30 Networking Luncheon

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**TECHNICAL OPERATIONS  
- DESIGN, CONSTRUCTION,  
INSPECTION, MAINTENANCE**

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2.00 **Risk Management and Emergency Response  
Planning for Above Ground Storage Tanks**

Case histories and lessons learnt

- Importance of sustainable safety cultures
- Challenges faced with fuels presenting the potential to 'Boilover'
- Preparing for storage and distribution of blended gasoline's - 'The Gasohol Story'

**Michael Sorensen**, *Business Development  
Manager, ALERT Disaster Control (Asia) Pte Ltd*

2.50 **Underground Oil/Gas Storage Caverns -  
Technology and Benefits**

- Development of underground oil storage caverns in Asia and oil storage technology
- Environmental and security benefits from underground storage
- Economical benefits from underground storage

**Dr Cai Jungang**, *Project Director of SINTEF-  
Tritech-Multiconsult Consortium (Project  
Management of Jurong Underground Caverns),  
Rock Mechanics and Cavern Specialist, Tritech  
Consultants Pte Ltd*

3.45 **Technology on Tank Inspection and Integrity  
Assessment**

- Risk based inspection planning and assessment
- Fitness for service and remaining life assessment of ageing tanks
- New inspection technologies, including robotic in-tank inspection
- CASE STUDY on effective maintenance strategies for bulk liquid storage tanks

**Udayan Dasgupta**, *General Manager, Engineering,  
Shriram EPC Ltd*

4.30 **End of Conference followed by  
Afternoon Refreshments**

Post-Conference Masterclass (9:00 - 5:00 pm)

**“Risk and Reliability Management of  
Bulk Liquid Storage Terminals”**

Ably led by : **S.K.Hazra, CEO, Aegis Logistics Ltd** and  
**Dr P.K.Ghosh, Director, Safety, Atomic Energy Regulatory Board,**  
Government of India

**Course Highlights**

- Risk Management of Storage Terminals for:
  - Oil & Petrochemicals Storage
  - Liquefied Gas Storage
- Overview of Hazard and Operability Study with respect to
  - Oil & Petrochemicals Storage
  - Liquefied Gas Storage
- Principles of Hazard Analysis
- Overview of Terminal Development
- Cost Effective Design and Project Management for Storage Terminals
  - Oil & Petrochemicals Storage
  - Liquefied Gas Storage

**About Your Masterclass Leader**

**Mr. S.K. Hazra** is a Mechanical Engineer from IIT Kharagpur with Post Graduation in Business Management. He has been associated with Chemical, Oil and Gas Industry since last 35 years, having served in reputed manufacturing as well as engineering companies, namely ICI India Ltd., Engineers India Ltd., Kvaerner Powergas India, etc. He has vast experience in Projects, Engineering, Design and Implementation of large projects in Chemical, Oil and Gas sector with specialisation in safety, health and environment matters. He is presently the President of Indian LP Gas Industry Association, Executive Committee Member of Indian Chemical Council (formerly Indian Chemical Manufacturers Association) as well as BCCI (Bombay Chamber of Commerce & Industry). He is presently the C.E.O. and Managing Director of Aegis Logistics Ltd., the largest Chemical Logistics Co. in India.

**Dr P.K.Ghosh** graduated from IIT & did post graduation from McGill University, Canada. He joined BARC in 1972 and Atomic Energy Regulatory Board in 1990. As an outstanding scientist and Director he was responsible for safety assessment of fuel cycle facilities of Department of Atomic Energy. His other assignments included assessment and review of fire safety aspects, enforcement of industrial safety in all the plants and projects of DAE as well as monitoring of occupational health of workers. He has been appointed Chairman and member of several committees on safety and environmental issues constituted by the Maharashtra Pollution Control Board, Government of Maharashtra, Ministry of Environment & Forest, and Mumbai High Court and he is a member of Maharashtra Crisis Management Committee for Chemical accident. He was Chairman of two Committees constituted by the Bureau of Indian Standards to draft two Codes of Practice one on Hazard Identification and Risk Assessment and the other on Occupational Safety and Health Audit.



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## ASIA BULK LIQUID STORAGE, TRANSPORTATION AND TERMINALS

### HOTEL INFORMATION

**Raffles City Convention Centre**  
80 Bras Basah Road  
Singapore 189560  
Tel: 65 6431 5538  
Fax: 65 6336 8783  
Contact Person: Mr David Lim  
Email: david.lim@swissotel.com

### 5 EASY WAYS TO REGISTER

- Mail** the attached registration form with your cheque to **IBC Asia (S) Pte Ltd**, No. 1 Grange Road, #08-02, Orchard Building, Singapore 239693.
- Customer Service Hotline:** (65) 6514 3180
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Yes! I/We will attend the ASIA BULK LIQUID STORAGE, TRANSPORT & TERMINALS • 29 – 31 AUGUST 2007, Raffles City Convention Centre, Singapore

<u>1st delegate</u>	<u>2nd delegate</u>
Name: Dr/Mr/Ms _____	Name: Dr/Mr/Ms _____
E-Mail _____	E-Mail _____
Job Title _____	Job Title _____
Mobile no _____	Mobile no _____
Department _____	Department _____
Company _____	
Address _____	
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- I cannot attend this event but
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- Please put me on your mailing list.

10090 web

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	Early Bird		Special Rate		Normal Rate
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<b>Price</b>	SGD	Saving	SGD	Saving	SGD
<input type="checkbox"/> 2 Day Package - 2 Day Conference	SGD 2200	SGD 300	SGD 2400	SGD 100	SGD 2500
<input type="checkbox"/> 3 Day Package - 2 Day Conference & 1 Day Workshop	SGD 2900	SGD 300	SGD 3100	SGD 100	SGD 3200

A 5% Goods and Services Tax(GST) is applicable to only Singapore-based companies. As of 1st July 2007, a 7% Goods and Services Tax is applicable. Fee includes luncheons, refreshments and complete set of documentation. It does not include the cost of accommodation and travel.

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SUBSTITUTION

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