

2nd Annual BLS: Tank Integrity and Maintenance

Spearheading safety and efficiency strategies for your bulk liquid storage operations towards proactively maintaining an increased level of tank integrity

Prince Hotel & Residence
Kuala Lumpur, Malaysia
21st & 22nd June 2010

“Excellence is an art won by training and habituation. We do not act rightly because we have virtue or excellence, but we rather have those because we have acted rightly. We are what we repeatedly do. Excellence, then, is not an act but a habit”

Aristotle

The safety, quality and quantity of bulk liquid storage is top priority for bulk liquid storage operators and to ensure this, effective terminal and tank maintenance strategies have to be put in place and practiced at all times


marcusevans®

Featuring a half-day course on cost efficient tank cleaning by:

Raid Taisir Al Qaisi General Manager
Al Ghaith Industrial Services Co.

Raid Taisir Al Qaisi is an expert in hydrocarbon tank cleaning, oil spill emergency response, hydrocarbon recovery, chemical recovery, catalyst handling, N2 purging, and hydrocarbon vacuum operations

Your distinguished chairperson:

Marshall Mott-Smith Director
National Institute for Storage Tank Management

Marshall was the Administrator for the Storage Tank Regulation Section in the Florida Department of Environmental Protection. He is also on the UL 971 committee and API's Committee for Leak Autopsies

Featuring international experts bringing excellent case studies from:

Dr Mabrouk Issa Suleiman Head of Inspection
TAKREER

Dr Mabrouk has 29 years experience both in upstream and downstream processes. He has produced more than 100 corrosion investigation reports and published several papers on stainless steel corrosion.

Ali A.Redha Al Lawati Operations Manager
Petrogas LLC

Mohib H Khan Technical & Engineering Manager
Shell Gas LPG Pakistan

Over thirty years experience in hydrocarbon industry in Operations, Project, Technical and Health Safety Security & Environment (HSSE) Departments. Managed Plant Operations and Bulk Handling of LPG at various locations with Zero LTI

Johar Juhari Principal Engineer (Materials and Corrosion)
Group Technology Solutions Petronas

PETRONAS Group Technology Solutions is entrusted to promote the strategic development and application of technology in order to increase the competitiveness of PETRONAS

Sanjay Anand Managing Director
Chemoil Singapore

Sanjay Anand was appointed Managing Director of Asia and Middle East operations in 2008, and has headed Chemoil's logistics operations since 2007

Bob Phang Chairman
NACE Malaysia

Past NACE International Director for East Asia & Pacific Region from 2004 –2008. Bob received the distinguished award for showing untiring leadership through providing a knowledge platform for corrosion awareness outreach to professionals and NACE members in the East Asian Pacific Rim

Dr Zafar Javeed Syed EHS Advisor
Horizon Terminals Limited

Alan Tiong General Manager
STP Malaysia

Senior Management Representative
Tyco Thermal Controls

Reed Leighton Chief Executive Officer
Leighton O'Brien

George Tobias Managing Director
Leighton O'Brien

Carlos Legorreta Sales Director
Oreco

Attend this informative event and gain practical insights into:

- **Grasping** the current technologies and developments in the bulk liquid storage industry
- **Enhancing** your tank operations via effective maintenance, inspection, repairing and cleaning strategies
- **Exploring** the latest methods in Non Destructive Testing (NDT) of tanks
- **Deliberating** the safest, best and most cost efficient cleaning method for your tank
- **Safeguarding** your terminal with an adequate disaster recovery and emergency response procedures
- **Putting** in place efficient fire protection and fire fighting strategies

Testimonials from past events:

“The sharing of experiences from all over the world is vital to increase the competency level”
Petronas

“Very interesting topics and I enjoyed this conference as I get to know real life issues and international technology related to bulk storage tanks”
PT Chandra Asri

“I enjoyed attending this conference to learn and share the experiences of tank inspectors”
Dacon Inspection

“I am satisfied with the Bulk Liquid Storage Conference”
IOT Management

“Very informative in terms of sharing best practices among participants and speakers”
Liquigaz Phillipines

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About the Silver Sponsors

Tyco Thermal Controls, a part of Tyco International Ltd is a world leader in heat-tracing, fire and performance wiring and sensing solutions for the oil and gas, power, food and beverage, chemical, water and other process industries, as well as for the commercial and residential construction markets. Tyco Thermal Controls has more than 2,500 employees in 56 countries around the world and provides innovative solutions to the most challenging heat-tracing, wiring, sensing leak detection, specialty heating, temperature measurement and floor-heating applications. Tyco Thermal Controls offers more than a dozen leading brands with strong market positions, including such well-known heat-tracing products and services brands as Raychem®, Tracer®, Pyrotenax® and DigiTrace®.

Health & Environment Deep Down, Underground

STP Malaysia delivers Double Wall DWII Fiberglass and Double Wall Glasteel II Tanks. Systems designed to meet demanding applications in Petroleum, Mining, Industrial, Chemical, Process, Power and Water Treatment Industries. STP works for a Greener Planet by providing environment-friendly storage products.

Leighton O'Brien has become synonymous with quality control and EPA compliance for fuel and storage tanks globally. Whether you have one tank or have a global network to manage, Leighton O'Brien provides a unique consolidated service that allows clients to cost effectively outsource the management of all of their fuel and storage tank requirements.

About the Media Partners

PTIT Focus Monthly is the only monthly magazine in Thailand that provides updates on special issues, news, statistics, and progress on the development of the petroleum, petrochemical, and energy related industries. Keep close track of milestones and issues facing the industry without going through news reports from so many sources. The statistics section is a unique source of Thailand data.

Worldoils.com is new but fast growing web portal, provides almost all the information needs of the oil and gas industry. Focused content in the portal, with the professional and serious visitor and user in mind, is moving Worldoils towards the position where it plans to be – the central place for all the world's oil and gas information. This is creating a solid platform for the event organizers, equipment and service providers, consultants, researchers and the training organizations to showcase their services. Worldoils is also now developing into a oil, gas and biofuels research and consultancy house.

Gulf Oil and Gas is a leading portal for high-quality information for Africa and the Middle East oil, gas, and hydrocarbon industry. Gulf Oil and Gas attracts thousands of professional regular visitors each day. Visitors are offered a prime source of high quality information and services. Advertisers, sponsors and potential commercial partners are offered a perfect platform to display, promote and communicate their services & products effectively to the global market.

About the Endorsers

The **Pigging Products and Services Association (PPSA)** was formed in 1990 and has over 90 members, representing the pigging industry throughout the world. PPSA plays a major role in providing information and sourcing pigging equipment and services for the pipeline industry and responds to hundreds of enquiries each year through its web site www.ppsa-online.com. It provides a free technical information service to all and runs seminars and training courses on pigging. The Association's aims are, "To promote the knowledge of pigging and its related products and services by providing a channel of communication between the members themselves, and with users and other interested parties".

Founded in 1989, The **National Institute for Storage Tank Management (NISTM)** is a non-profit organization that provides educational opportunities, resources and training seminars about the operation, regulation, and management of Underground and Aboveground storage tank systems. NISTM offers several one day classes throughout the year about management and operations of UST and AST's. Our Annual International AST and UST conferences are designed for Engineers, Managers or other individuals involved with operation, construction, environmental compliance, spill prevention or response. This includes Management activities associated with above and underground tanks. The Institute has a partnership with the National Organization of State AST Program Managers, and works with numerous state and federal organizations responsible for storage tank regulation, oil spill prevention and response, in addition to interstate liquid petroleum pipeline regulation. For further information, please visit our website at www.NISTM.org or contact the Executive Director, Mr. Jim DeMartini at jdemartini@nistm.org

About the Associate Sponsor

Oreco A/S develops and markets automated tank cleaning and oil recovery solutions. The mobile, fully integrated systems combine cleaning of aboveground oil storage tanks with simultaneous sludge separation. The non-man-entry solutions make tank cleaning faster, safer and more environmental-friendly compared to manual methods, while ensuring the highest achievable cleaning quality. www.oreco.com

About the Bronze Sponsor

Zerust Oil and Gas – A specialist in corrosion prevention products and services with over thirty years of experience protecting metals across various business sectors. Our new technologies provide innovative solutions for the oil, gas and chemical process industries.

Monday 21st June 2010

0830 Registration & morning coffee

0900 Introduction and welcoming remarks from the Chairperson **Marshall Mott-Smith** Director **National Institute for Storage Tank Management**

0915 Session One – Keynote Presentation **Looking at trends in technology and environmental compliance of field-erected ASTs**

- Gaining information about new technologies that owners are using to improve performance and compliance of ASTs
- Taking in case studies of the preferred measures used by owners to prevent discharges to ground and surface waters
- Grasping data discussing the sources and causes of discharges along with real life case studies of spills and discharges
- Reviewing the trends in tank foundations, leak detection, overfill prevention, and secondary containment technologies

Marshall Mott-Smith Director
National Institute for Storage Tank Management

1000 Session Two – Expert Presentation **Carrying out a cost effective and efficient quantitative leak detection without tank entry**

- Exploring Leighton O' Brien's tank testing technology, equipment and test methods
- Deciphering the results of tank testing and results for your tank's increased integrity
- Looking at the advantages to this non hazardous methodology and how it supplements the API 653 periodic tank bottom assessment and compliments automatic tank gauging periodic health check
- Identifying the cost and benefits of this method to tank owners

Reed Leighton Chief Executive Officer
Leighton O'Brien
George Tobias Managing Director
Leighton O' Brien

1045 Morning refreshments and networking break

1115 Session Three – Case Study **Evaluating current options for reliability and durability of tanks by introducing controls in corrosion to reduce tank down time**

- Venturing through various conventional and advanced non destructive tests available to check your tank's integrity
- Selecting the monitoring methods for consistent risk evaluation
- Designing corrosion control mechanisms for types of storage tanks
- Utilising NDT for tank testing to reduce and eliminate tank shutdowns

Bob Phang Chairman
NACE Malaysia

Why you cannot miss this event

Companies that store bulk liquids in aboveground storage tanks and underground storage tanks face the challenge of developing and maintaining a tank management programme. An effective tank management programme is necessary to ensure that tanks operate safely and are inspected and maintained on a regular basis in a cost-effective manner.

An effective tank management programme is also necessary to enable owners to demonstrate to regulatory agencies that the requirements of industry standards with regard to inspection intervals, fitness-for-service assessments and other tank issues are satisfied. Some companies have met the challenge of implementing an effective tank management programme. But for many others the challenge of maintaining a tank management programme can be formidable. Join top industry experts who will be sharing their knowledge at this unique one of a kind event.

This two day conference is designed for professionals involved in the operations of bulk liquid terminals and every aspect of the maintenance of the storage tanks to ensure an increased level of tank integrity and safety of its operations.

1145 Session Four – Expert Presentation **Executing a safe, non- man entry tank cleaning and oil recovery for your storage tank**

- Discussing the HSE related issues towards an effective tank cleaning exercise
- Assessing the risk sources in the tank cleaning process
- Examining the requirements to improve cleaning methods
- Implementing a modern tank cleaning approach to enhance the tank cleaning process

Carlos Legorreta Sales Director
Oreco

1230 Networking luncheon

1400 Session Five – Case Study **Conquering the challenges of managing the integrity of Aboveground Storage Tanks**

- Having an overview of the main damage mechanisms associated with storage tanks
- Discussing the fine balance between operations, production planning, inspection and maintenance requirements
- Highlighting the problems encountered when developing maintenance contracts and how to fine tune the requirements based on inspection history
- Outlining the frequency and scope of inspections, recommended NDT techniques, settlement surveys, repairs and hydro tests
- Learning from selected case studies of tank failures and their root causes
- Punch listing the important elements of storage tanks integrity management plan

Dr Mabrouk Issa Suleiman Head of Inspection
TAKREER

1445 Session Six – Expert Presentation **Application of internal monitoring of stocks in ASTs: Looking at the various methods of control to prevent product loss**

- Using inventory control to identify leaks and prevent loss of petroleum products
- Examining the method of employing manual tank gauging
- Appraising automatic tank gauging of your AST tank
- Carrying out tightness testing and inspection to ensure that tanks or piping has no holes or cracks

Ali A.Redha Al Lawati Operations Manager
Petrogas LLC

1515 Afternoon refreshments and networking break

1545 Session Seven – Case Study **Comprehending corrosion mechanisms and analysing tank lining systems for internal corrosion control**

- Addressing the issue of internal floor corrosion and the effects of Sulphate Reducing Bacteria (S.R.B.)
- Understanding cathodic protection and it's effect on the external floor corrosion
- Exploring corrosion resistant coatings selection and tank surface preparation

Johar Juhari Principal Engineer (Materials and Corrosion)
Group Technology Solutions Petronas

1630 Session Eight – Expert Presentation **Carrying out Risk based Inspection (RBI) on your Aboveground Storage Tanks (AST) for increased integrity**

- Utilising RBI as a methodology for assignment of resources to assess and maintain tank integrity based on their risk level
- Dwelling into RBI assessments on storage tanks based on the American Petroleum Institute's (API) standards
- Deciding on the next steps to take based on the risk ranking obtained via RBI and data collection and review for storage tanks
- Pin pointing the level of inspection confidence and inspection quality to reflect how accurately inspection data represents the true condition of the tank

Mohib H Khan Technical & Engineering Manager
Shell Gas LPG Pakistan

1715 Closing remarks from the chairperson and end of day one

Tuesday 22nd June 2010

0830 Registration & morning coffee

0900 Welcoming remarks from the Chairperson
Marshall Mott-Smith Director
National Institute for Storage Tank Management

0915 Session One – Expert Presentation

Application of the requirement of tank overflow protection for aboveground storage tanks

In the wake of the Buncefield disaster in the UK (December 2005), the various regulatory entities and standards organisations have been scrambling to upgrade recommended practices and procedures to minimise the risk for storage tank overflow and hopefully prevent a recurrence of this tragedy

- Scrutinising the overflow protection requirements for above ground storage tanks
 - Keys to selecting the best sensor for your tank: The success to overflow protection
 - Looking at the various considerations such as type of AST, applications and requirements when choosing a sensor: Making the right choice for your tank
- Senior Management Representative
Tyco Thermal Controls

1000 Session Two – Case Study

Administering petroleum storage tank fire protection

- Revisiting case studies of major tank fire incidents and lessons learnt from them
- Applying fire hazard management process and principles in your storage terminal
- Checking out the legislative trends and safety cases
- Grasping the various fire and explosion types and the effects associated with storage tanks type
- Reviewing liquefied natural gas characteristics and fire scenarios

Managing Director
Sanjay Anand
Chemoil Singapore

1045 Morning refreshments and networking break

1115 Session Three – Expert Presentation

Acquiring the strategies on underground tank integrity monitoring

- Identifying when to carry out tank integrity monitoring
- Understanding your tank's behaviour and the importance of having the knowledge of the tank's service to history to ensure effective tank integrity monitoring
- Evaluating the main cause of failures and looking at compromises on tank design and external influences
- Illustrating the benefits of excellent design provisions and engineering practices

General Manager
Alan Tiong
STP Malaysia

1200 Session Four – Expert Presentation
Embracing foam as the soul of petroleum fire fighting

- Reviewing the different types of fire fighting foams that can be used in the event of fires
- Comprehending the importance of the physico-chemical test of foam
- Discovering the essentials of fire fighting foam
- Going through the common foam problems and how to encounter it

EHS Advisor
Dr Zafar Javeed Syed
Horizon Terminals Limited

Professional in-house courses

If you have a number of delegates with similar event needs, then you may wish to consider having a professional in-house course delivered locally on-site. Course can be tailored to specific requirements.

For further details, please use the contact information given on the last page of this brochure.

marcus evans would like to thank everyone who has helped with the research and organisation of this event, particularly the speakers and their staff for their support and commitment.

1245 Networking luncheon

1400 Half-day course

Adopting an effective scheduled sludge control strategy for a safer and cost efficient tank cleaning process

Manual sludge removal of sludge can cause a tank to be taken offline for several months. Currently many organisations are cleaning their tanks manually where workers are going into the tanks to remove the sludge. Workers are exposed to a highly hazardous working environment. Through an effective sludge control strategy, the tank's downtime can be reduced and it will also save cost and prevent workers from going into the hazardous tanks.

- Ensuring tank sludge processing projects are planned and executed cost effectively
- Distinguishing the key differences in desludging methods that can be implemented
- Measuring sludge volume and topography
- Developing on line sludge management plans
- Desludging: Man entry vs. non-man entry
 - Identifying the pros and cons of desludging
 - Health and safety aspects
- Comparing available systems of re-suspension, solvent extraction and remote mechanical methodology
- Discussing possibilities of alternative disposal routes of residual from sludge cleaning
 - Cost
 - Environmental impact
 - Discussing the international regulations
- Processing sludge for hydrocarbon recovery and waste management
 - Optimising oil recovery from sludge
 - Utilising sludge for agricultural recycling
 - Sludge for biogas as energy
 - Hydrothermal oxidation
- Removing recoverable products from tanks through cost effective measures
 - Bonding and grounding works
 - Pipe insertions
 - Deploying vacuum pumps
 - Utilising suction pumps through fixed connections

Facilitated by:

Raid Taisir Al Qaisi General Manager
Al Ghaith Industrial Services Co.

* Afternoon refreshments and networking break will be held at 1530

1730 Closing remarks from the chairperson and end of conference

Who should attend

This conference is designed for individuals holding the following job titles:

- Terminal Managers
- Plant Managers
- Inspection Managers
- Tank Engineers
- Head of Engineering Projects
- Supervisors
- Environmental Engineers
- Operations Managers
- Commercial and Business Development Managers
- Maintenance Managers
- EHS (Environment, Health & Safety) Managers
- Logistics Managers
- Superintendent-Liquid Storage

It is also applicable for:

- Supply Chain Managers
- Distribution Managers
- Asset Managers
- Procurement Managers
- Pipeline Managers

From the following industries:

- Oil and gas companies
- Chemical & petrochemical manufacturers and suppliers
- Independent terminal storage operators and distributors
- Oil and gas shipping and logistics companies
- Engineering, procurement and construction (EPC)
- Oil, chemical and petrochemicals trading companies

Secondary market includes:

- Refiners
- Legislators
- Distributors
- Insurance companies