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Details on page 8

# ASSET INTEGRITY MANAGEMENT SUMMIT ASIA 2014

- ▶ Pre Conference Masterclass:  
**10 November 2014**
- ▶ Main Conference:  
**11 - 12 November 2014**
- ▶ Post Conference Workshops:  
**13 November 2014**
- ▶ Venue: **InterContinental  
Kuala Lumpur**

## EXTENDING SERVICE LIFE AND MINIMISING DOWNTIME OF AGEING ASSETS

### WHAT'S NEW FOR 2014

Full day masterclass:  
10 November 2014

**How to Incorporate  
Lifecycle Analysis  
(LCA) into Integrity and  
Maintenance Planning  
of an Asset**

**Fiorenzo Calo**  
Loss Prevention Specialist,  
**STUDIO ING CALO**

3 Technical Workshops:  
13 November 2014

**Ensuring Successful  
Implementation of an  
Asset Management  
System for Major Oil &  
Gas Projects**

**Ahmed Said Kotb**  
Team Leader - Asset  
Management, **ADMA-OPCO**

**Addressing Pipeline  
Integrity Issues Due  
to Erosion Exposure  
at Highways and  
Waterway Crossings:  
Techniques and Case  
Studies**

**Alok Gurtu**  
Head - Pipeline  
Integrity, **RELIANCE  
GAS TRANSPORTATION  
INFRASTRUCTURE**

**Planning, Scheduling  
and Auditing  
Maintenance for Ageing  
Assets: How to Create  
a Practical Matrix for  
Higher Operational  
Efficiency?**

**Marwan Elbendary**  
Senior Operations &  
Maintenance Coordinator,  
**CNOOC**

### KEY SPEAKERS:



**Nigel Wayne Nichols**  
Custodian - Structural Integrity,  
Maintenance & Engineering,  
**PETRONAS CARIGALI**



**Ahmed Said Kotb**  
Team Leader - Asset  
Management, **ADMA-OPCO**



**Marwan Elbendary**  
Senior Operations & Maintenance  
Coordinator, **CNOOC**



**Ahmed Mohammed**  
Team Leader - Surface Facilities  
Integrity, **ABU DHABI COMPANY  
FOR ONSHORE OIL OPERATIONS**



**Sontirat Rujipattanapong**  
Senior Engineer - Reliability &  
Integrity, **PTT E & P**



**Jamal Abu Nahla**  
Head - Reliability, **GASCO**



**Deepak Kumar**  
Lead HSE Advisor - Technical  
Safety & Asset Integrity,  
**BG EXPLORATION & PRODUCTION**



**Alok Gurtu**  
Head - Pipeline Integrity  
**RELIANCE GAS TRANSPORTATION  
INFRASTRUCTURE**



**Prabhakara Baliga**  
Executive Director - HSE (Refineries),  
**INDIAN OIL CORPORATION**



**Fiorenzo Calo**  
Loss Prevention Specialist  
**STUDIO ING CALO**

“It was good to get an insight  
into the regional asset  
integrity knowledge. I found  
this event very valuable.”

**Thomas Menzie**, Head - Integrity  
management, **Petronas Carigali**



\*Subject to approval  
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# ASSET INTEGRITY MANAGEMENT SUMMIT ASIA 2014

Dear stakeholder,

The oil & gas industry in Asia is characterised by the following factors:

- ▶ More than 80% of all assets are past their design service life, increasing downtime
- ▶ Increased demand for production is stretching existing reserves
- ▶ Higher investment into maintaining assets is leading to unfavourable ROIs

With billions of dollars invested annually into improving the integrity of ageing assets, it is time that the industry addressed these challenges:

- ▶ Are you implementing asset integrity as a holistic function – with different strategic/tactical understandings?
- ▶ Are you coordinating enough with the process safety-HSE/operations/reliability teams?
- ▶ Are your assets adapting to new integrity techniques/materials/tools fast enough?

Better productivity and hence the future and sustainability of your ageing assets rely on you finding answers to these challenges.

The **4th annual Asset Integrity Management Summit Asia**, running 11 – 12 November 2014 in Kuala Lumpur focuses on sharing expertise from major exploration & production firms and refineries, providing you with practical solutions to the challenges that threaten the integrity of assets.

**For the first time, case studies from integrity and related functional groups are included to help you understand and mitigate coordination challenges – with the realisation that a marginal process/procedural improvement can make your assets safe and profitable.**

This new and improved interactive conference provides you with 30 presentations, numerous round table and panel discussions, a full day masterclass and 3 technical workshops – to improve practical learning and networking.

I look forward to seeing you at the 4th annual Asset Integrity Management Summit Asia this November!

With best regards,

**Sundralingam Muthanandan**  
Principal – Rotary Equipment  
PETRONAS

“Very informative - keeping industrialist up-to-date about safe operation of assets while improving business topline growth and profitability with the help of new advanced technology.”

**Chantharan Ramasamy**, Assistant Vice President – Account Management, **ABB Malaysia**



**73**  
Engineer/  
Engineering  
Manager

## Job titles

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■ Project Director/Manager .....	15
■ Maintenance Director/Manager .....	26
■ Safety/HSE Advisors .....	21
■ Production/Operations/process/facility .....	40
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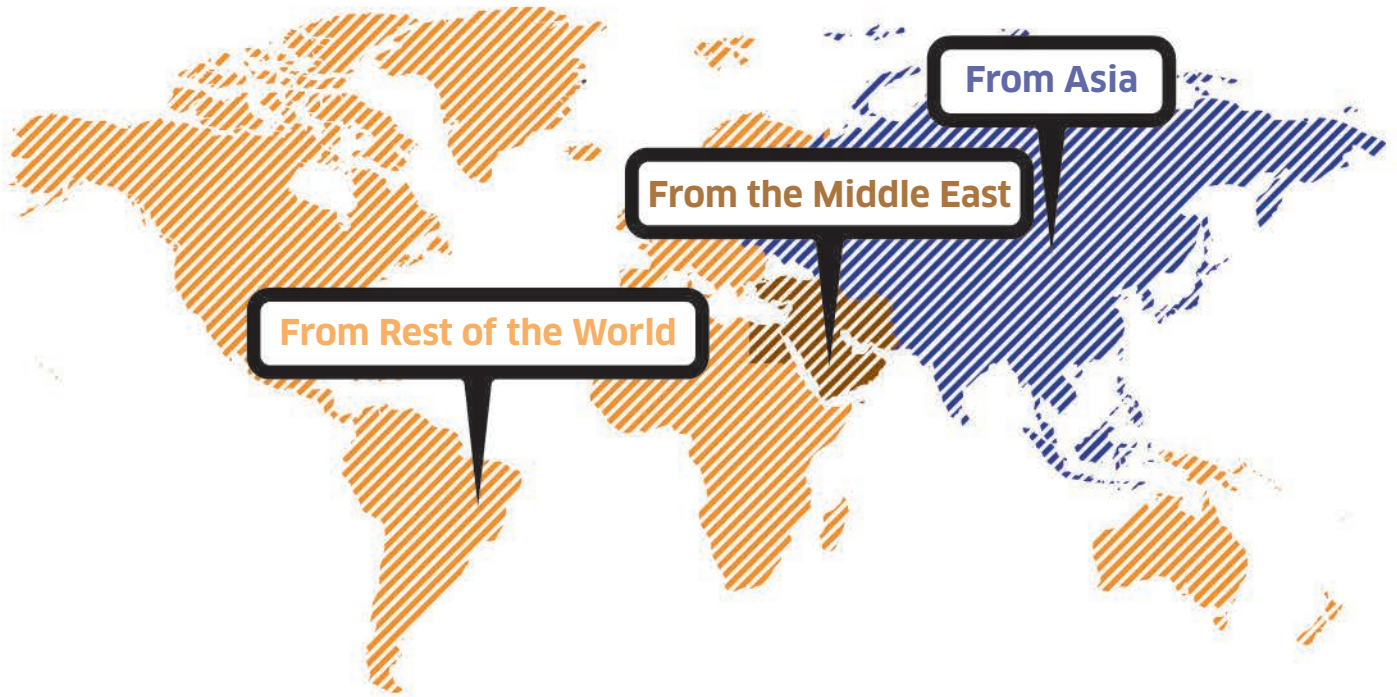
**46**  
Civil  
structural  
and pipeline  
engg

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## Introducing our international panel of speakers:



### From Asia



**Nigel Wayne Nichols**  
Custodian – Structural Integrity, Maintenance & Engineering, PETRONAS CARIGALI



**Mohamad Ashri Mustapha**  
Team Lead – Pipeline & Technical Services, PETRONAS CARIGALI



**Sontirat Rujipattanapong**  
Senior Engineer - Reliability & Integrity, PTT E & P



**Akhmad Khaqim**  
Senior Process Safety Specialist, TALISMAN ENERGY



**Prabhakara Baliga**  
Executive Director – HSE (Refineries), INDIAN OIL CORPORATION



**Marwan Elbendary**  
Senior Operations & Maintenance Coordinator, CNOOC



**Sundralingam Muthanandan**  
Principal – Rotary Equipment, PETRONAS



**Tri Agusman**  
Technical Expert – Pressure System Integrity, PT PERTAMINA



**Alok Gurtu**  
Head – Pipeline Integrity, RELIANCE GAS TRANSPORTATION INFRASTRUCTURE



**Mahendra Kumar Rastogi**  
Vice President – Inspection & Reliability, BHARAT OMAN REFINERIES



**Dr Gopal Jayaraman**  
Head – HSE (Energy) ESSAR OIL



**Rajesh Shah**  
Head – Safety ESSAR OIL



**Rehan Ahmed**  
Head – Materials, Corrosion & Inspection, PETRONAS



**Deepak Kumar**  
Lead HSE Advisor – Technical Safety & Asset Integrity, BG EXPLORATION & PRODUCTION



**Rajesh Lade**  
Lead HSE Advisor – Operations & Brownfield, BG EXPLORATION & PRODUCTION

### From the Middle East



**Ahmed Said Kotb**  
Team Leader – Asset Management, ADMA-OPCO



**Ahmed Mohammed**  
Team Leader – Surface Facilities Integrity, ABU DHABI COMPANY FOR ONSHORE OIL OPERATIONS



**Jamal Abu Nahla**  
Head – Reliability GASCO



**Jayprakash Raj**  
Lead – Reliability Engineering, QATARGAS



**Ashiq Hussain**  
Section Leader – Well Integrity, ADMA – OPCO



**Ijaz Ul Karim Rao**  
Director – Asset Integrity, APPLUS VELOSI

### From Rest of the World



**Fiorenzo Calo**  
Specialist – Loss Prevention, STUDIO ING CALO



**Clive O' Leary**  
Marketing Director – Protective Coatings Worldwide, INTERNATIONAL PAINT



0830 **Registration & Morning Coffee**

0845 **Opening Remarks by Chairman**

0900 **Walking the talk: Committing to efficient asset integrity management policies to ensure operational excellence**

OPENING KEYNOTE

- ▶ Staying motivated and committed to AIM at leadership's level
- ▶ Are existing organisational structures impeding top-down AIM approach?
- ▶ Addressing the resistance to change at multiple levels
- ▶ Creating a regional AIM platform - need for leadership

**Nigel Wayne Nichols**

Custodian - Structural Integrity, Maintenance and Engineering, **PETRONAS CARIGALI**

0930 **Addressing challenges in the engineering implementation of an asset management system**

- ▶ Implementation objectives and phases of a successful asset management system (AMS)
- ▶ Identifying an ideal implementation model
- ▶ Phases, methodology and stages of AMS implementation
- ▶ Monitoring and course correction post AMS implementation

**Ahmed Said Kotb**

Team Leader - Asset Management, **ADMA-OPCO**

1000 **Networking Coffee Break**

1040 **How differences in design and operational codes impact asset integrity and how to mitigate the risks involved?**

ROUNDTABLE DISCUSSION A

- ▶ Minimising differentials within codes used for processes and integrity procedures
- ▶ Authorising a central body to approve design and operational standards
- ▶ Risks encountered while using differential standards
- ▶ Incompatibility induced inspection and maintenance failures

**Fiorenzo Calo**

Loss Prevention Specialist, **STUDIO ING CALO**

1110 **Evolving and communicating asset integrity benchmarks for policy makers, implementers and practitioners**

ROUNDTABLE DISCUSSION B

- ▶ Differing commitment levels and objectives for policy makers, implementers and practitioners
- ▶ Defining the scope and authority of stakeholders
- ▶ Creating adequate monitoring systems
- ▶ Establishing reliable communication procedures - top-down and bottom-up

**Dr Gopal Jayaraman**

Head - HSE (Energy), **ESSAR OIL**

**Rajesh Shah**

Head - Safety, **ESSAR OIL**

1140 **Applying Structural Integrity Management System (SIMS) for ideal management of pressure vessels**

- ▶ Going through the process involved with the new API RP2 SIMS code and the various assessment tools related to it
- ▶ Reaping the benefits of adopting the API RP2 SIM for managing the structural integrity of ageing platforms
- ▶ Integrating SIMS to efficiently modify and upgrade O & G assets for higher working loads
- ▶ Reviewing the future of SIMS in APAC

**Tri Agusman**

Technical Expert - Pressure System Integrity, **PT PERTAMINA**

1210 **Networking Lunch Break**

1340 **Approaching proactive maintenance of assets with process safety as focus**

- ▶ Prioritising inspection/maintenance scheduling for ageing static assets
- ▶ Planning for shutdown and turnaround maintenance
- ▶ Assessing criticality of equipment related to age and process
- ▶ Failure modes associated with typical processes and addressing them

**Akhmad Khaqim**

Senior Process Safety Specialist, **TALISMAN ENERGY**

1410 **Technology Presentation by INTERNATIONAL PAINT**

1440 **Optimising maintenance scheduling: data analysis and integrity management**

- ▶ Analysing past data of maintenance and results of shutdown/turnaround
- ▶ Managing warehouse and material data
- ▶ Implementing RCM and contractor follow-up with regards to maintenance codes

**Marwan Elbendary**

Senior Operations & Maintenance Co-ordinator, **CNOOC**

1510 **Networking Tea Break**

1550 **Life expansion of ageing assets: what are the hurdles in overcoming the challenges?**

PANEL DISCUSSION

- ▶ Are life expansion issues different for subsea, offshore and onshore assets?
- ▶ Which AIM technology to choose and at what stage?
- ▶ Sustainable asset operation and AIM: where do we miss the trick?
- ▶ Creating a coordinated task force in achieving life expansion objectives

Panelists

**Nigel Wayne Nichols**

Custodian - Structural Integrity, Maintenance and Engineering, **PETRONAS CARIGALI**

**Jamal Abu Nahla**

Head - Reliability, **GASCO**

**Ahmed Said Kotb**

Team Leader - Asset Management, **ADMA-OPCO**



- 1620 **AIM implementation: enhancing the efficiency of verification procedures and analysing the barriers of implementation**
- ▶ Integrating existing verification procedures of structural, mechanical and pipeline integrity management systems
  - ▶ Creating a performance management systems to address gaps in integrity systems
  - ▶ Developing RBI reviews and audits
  - ▶ Investigation failures in processes and feeding back to performance improvement

**Jamal Abu Nahla**  
Head – Reliability, **GASCO**

- 1650 **Improving leak detection response through fiber optics**
- ▶ Temperature sensing for leak detection response: benefits over conventional systems
  - ▶ Improved response time: how crucial it is in case of incidences
  - ▶ Maintaining fluidity of oil and averting major accidents
  - ▶ Embedding fiber optics cost efficiently onto equipment

Panelists  
**Deepak Kumar**  
Lead HSSE Advisor – Technical Safety & Asset Integrity, **BG EXPLORATION & PRODUCTION**

**Rehan Ahmed**  
Head – Materials, Corrosion & Inspection, **PETRONAS**

**Alok Gurtu**  
Head – Pipeline Integrity, **RELIANCE GAS TRANSPORTATION INFRASTRUCTURE**

1720 **Summary by Chairman**

1730 **End of Day One**

0830 **Registration & Morning Coffee**

0845 **Opening Remarks by Chairman**

- 0900 **Optimising preventing maintenance through analysing unexpected asset shutdowns: case study – PTT E & P**
- ▶ Instrumentation for gathering data from unexpected asset shutdowns
  - ▶ Analysing data for 2 years and developing a preventive maintenance plan accordingly
  - ▶ Gap identification and mitigating risks caused through defective instrumentation

**Sontirat Rujipattanapong**  
Senior Engineer - Reliability & Integrity, **PTT E & P**

- 0930 **Mitigating corrosion and metallurgical degradation of static equipment in refineries and improving reliability and integrity of assets**
- ▶ Types of metallurgical degradation/corrosion that impact integrity of refinery assets
  - ▶ Segregating different assets based on corrosive susceptibility and treating them
  - ▶ Mitigation measures for corrosion and metallurgical erosion
  - ▶ Life service extension achievable: case studies

**Mahendra Kumar Rastogi**  
Vice President – Inspection & Reliability, **BHARAT OMAN REFINERIES**

- 1000 **Case study for successful implementation of computerized FIMS (Facilities Integrity Management System) for offshore operating company with sub-systems**
- ▶ Implementation of Integrity Management System for Static Equipments (VAIL-PEMS)
  - ▶ Implementation of Integrity Management system for Electrical, Instrumentation and rotary management system (VAIL- EIRMS)
  - ▶ Implementation of Integrity Management System for Subsea Pipelines (VAIL-PIMS)
  - ▶ Implementation of Integrity Management System for Subsea Structures (VAIL-SIMS)

**Ijaz Ul Karim Rao**  
Director – Asset Integrity, **APPLUS VELOSI**

1030 **Networking Coffee Break**





- 1110 **Redefining the role of merged operations and asset integrity functional groups**
- ▶ From developing accident risk registers to predicting spares requirement for better asset management
  - ▶ What communication flaws can be addressed?
  - ▶ Leading the team: will it be HSE or Operational excellence?
  - ▶ Formulating the team with LCA of the asset in mind

**Deepak Kumar**

Lead HSE Advisor – Technical Safety & Asset Integrity, **BG EXPLORATION & PRODUCTION**

**Rajesh Lade**

Lead Advisor – HSE (Operations & Brownfield), **BG EXPLORATION & PRODUCTION**

- 1140 **Integrity management for extending life of ageing wells: the challenges and techniques**
- ▶ What are the usual criticality issues attached with well integrity
  - ▶ Failure of well barrier equipment: the causes and corrective methods
  - ▶ Effect of scaling and corrosion on well heads
  - ▶ Addressing common causes of pressure/thermal exposure to critical components

**Ashiq Hussain**

Section Leader – Well Integrity, **ADMA – OPCO**

- 1200 **Addressing functional overlaps with process safety and HSE: where does the responsibility lie?**
- ▶ Moving towards a higher operational excellence
  - ▶ Mobilising and training human resources for improved AIM
  - ▶ Auditing for gap identification in process safety and integrity functions
  - ▶ Installing communication and coordination systems to create a safe operational envelope

**Prabhakara Baliga**

Executive Director – HSE (Refineries), **INDIAN OIL CORPORATION**

1230 **Networking Lunch Break**

**STREAM A**

**Rotating Equipment**

AIM for pumps, compressors, turbines, gearboxes, motors and other rotary valves

**STREAM B**

**Static Equipment**

AIM for material, pressure vessels, pipelines and valves

- 1400 **Correcting maintenance issues in turbocharged rotary equipment**
- ▶ Addressing lubricant oil leakage: practical tools
  - ▶ Monitoring exposure to high temperature and engine oil splash
  - ▶ Protecting rotary equipment from exposure to hydrocarbon leakage
  - ▶ Choosing between multiple insulation options: fibres, heat syncs etc.

**Sundralingam Muthanandan**

Principal – Rotary Equipment, **PETRONAS**

**How unpredicted material failures initiate industry-wide AIM rethinking?**

- ▶ Preparing for sudden material replacement and industry-wide rethinking initiatives
- ▶ Predictive maintenance and inventory keeping
- ▶ Arriving at a cost-inventory optimality for AIM preparedness

**Rehan Ahmed**

Head – Materials, Corrosion & Inspection, **PETRONAS**

- 1430 **Minimising coordination-related issues in rotary maintenance**
- ▶ Creating and implementing coordination enhancing programmes with other stakeholders in rotary equipment maintenance
  - ▶ Best practices in working with operations and resolve risk-prone areas
  - ▶ Overlap assessment with safety and environmental departments

Panelists

**Sundralingam Muthanandan**

Principal – Rotary Equipment, **PETRONAS**

**Ahmed Mohammed**

Team Leader – Surface Facilities Integrity, **ABU DHABI COMPANY FOR ONSHORE OIL OPERATIONS**

**External/internal lining for large dia. submerged pipeline systems to control corrosion**

- ▶ Segregating pipeline network according to criticality of applications
- ▶ External wrapping mechanisms including spiral to address external corrosion
- ▶ Evolving poly-chemical coating systems for internal coating
- ▶ Cathodic disbonding characteristics and cost attached

**Alok Gurtu, Head – Pipeline Integrity, RELIANCE GAS TRANSPORTATION INFRASTRUCTURE**

PANEL DISCUSSION



1500 **Networking Tea Break**

**STREAM A**

**Rotating Equipment**

AIM for pumps, compressors, turbines, gearboxes, motors and other rotary valves

**STREAM B**

**Static Equipment**

AIM for material, pressure vessels, pipelines and valves

1540 **Current techniques in equipment criticality analysis for greenfield assets**

- ▶ Evolving codes from ISO 55000,1 and 2 on criticality analysis
- ▶ Risk matrix development in accordance to cost consequences of a failure
- ▶ Incorporating ISO 31000 for risk control methodology
- ▶ How relevant is assigning sanctioning authority to levels of management based on cost consequences?

**Ahmed Mohammed**

Team Leader – Surface Facilities Integrity, **ABU DHABI COMPANY FOR ONSHORE OIL OPERATIONS**



**Inspection planning for static equipment in ageing assets**

- ▶ What are the constraints in inspecting static equipment in ageing plants
- ▶ Challenges in maintaining production while inspecting within budget
- ▶ Minimising errors of wall thickness due to improper NDT interpretation
- ▶ In-Service-Inspections (ISI) and the role of the planner

Panelists

**Mohamad Ashri Mustapha**

Team Lead – Pipeline & Technical Services, **PETRONAS CARIGALI**

**Alok Gurtu**

Head – Pipeline Integrity, **RELIANCE GAS TRANSPORTATION INFRASTRUCTURE**

1610 **Improving maintenance efficiency indices for rotary equipment**

- ▶ Comparing cost conditions between zero maintenance and periodic maintenance
- ▶ Developing your own maintenance efficiency index
- ▶ Measuring ME index need for differently ageing rotary equipment
- ▶ How to keep it optimal

**Jayprakash Raj**

Lead – Reliability Engineering, **QATARGAS**

**Optimising isolation and partial stroke testing procedures for assets without bye-pass lines**

- ▶ Addressing difficulties while inspecting operational emergency shutdown valves
- ▶ Costing of designing a pipeline system with bye-pass redundancy
- ▶ Integrating cost/space/equipment factors into planning isolation testing

**Mohamad Ashri Mustapha**

Team Lead – Pipeline & Technical Services, **PETRONAS CARIGALI**

1640 **Summary from Chairman**

1700 **End of Conference**





## How to Incorporate Lifecycle Analysis (LCA) into Integrity and Maintenance Planning of an Asset

An efficient, practical process safety management strategy straddles every functional area of an asset right from process development to process safety design, plant construction, production and plant maintenance. Since a coordinated effort is required to ensure adequate asset integrity which will then lead to a higher process safety, a good understanding of how different functional groups work with each other and their relative impacts is a must.

This workshop looks into this challenge of coordination and provides practical strategies used in developing an asset's integrity and safety planning by visualising the various stakeholder groups' objectives and deliverables - with LCA being the connecting factor.

### Key Learnings:

- ▶ Reviewing the impact of EPC and commissioning procedures on process safety: what are the pitfalls to look for?
- ▶ Developing a commercially viable process safety management model
- ▶ Creating ideal positioning of process safety elements
- ▶ Determining which stakeholder groups are to be involved in developing the PSM model and at what stage
- ▶ Efficient predicting of pre-commissioning and commissioning responses of a plant towards higher safety and maintainability
- ▶ Managing information flow between stakeholder groups
- ▶ Resource planning and compliance audits: when to run and at what frequency

Masterclass conducted by:

### Fiorenzo Calò

Loss Prevention Specialist, **STUDIO ING CALO**

Fiorenzo Calò is a PSM specialist with robust experience in industrial risk and health, loss prevention and safety Assessments over 25 years, mainly focusing on oil & gas and chemical industry sectors.

He has carried out safety studies and led many HAZOP/SIL studies for projects worldwide (Italy, USA, France, Greece, Algeria, Egypt, Tunisia, Lybia, Syria, Iran, Saudi Arabia, United Arab Emirates, Venezuela, China, Qatar, Singapore, South Korea, Brasil), both FEED and EPC Phase, for the most important Oil & Gas Operators, including ENI, SAUDI ARAMCO, GASCO, KOC (Kuwait Oil Company), NIOC (National Iranian Oil Company), PETRONAS, SEREPT, SONATRACH, TAKREER, TOTAL etc., and with various international Contractors, such as SAIPEM (ENI Group), TECHNIP, ABB, TECHINT, AKER KVAERNER, TECNOMARE (ENI GROUP), FOSTER WHEELER, BWO offshore (Singapore), SAMSUNG ENGINEERING, HYUNDAI ENGINEERING etc.

### Who should attend?

Asset Integrity: Head/Lead/Manager  
Reliability, Inspection, Maintenance: Head/Lead/Engineer  
Operations, Production, Process Safety, HSE: Advisor/Engineer

“ IQPC have taken the time and effort to address the most important but the least understood subject, AIM. This needs to be commended.”

**Prakash Iyer**  
Reliability & Inspection Engineer,  
**CHEVRON**

“ A great opportunity to share knowledge with integrity management professionals from all over the world.”

**Mathew Fuller**  
Materials and Corrosion Engineer,  
**CHEVRON AUSTRALIA**





### Workshop A:

0830 – 1100 (with 30 minutes break)

## Ensuring Successful Implementation of an Asset Management System for Major Oil & Gas Projects

Major projects involve thousands of assets, both rotary and static, and require a top-down approach in creating a coordinated Asset Management System (AMS).

The AMS will serve as the guideline for asset integrity, inspection and maintenance functions – creating reporting hierarchy and functional responsibilities. This masterclass, coming from an expert who has implemented AMS systems for global majors – SHELL and BP and now with ADMA – OPCO, the largest oil producer in UAE – will help you understand the methodology and process involved in step-by-step implementation of AMS for a major project.

### Key Learnings:

- ▶ Discussions on the pre-implementation phase including elements such as:
  - ▶ Business requirements for AMS
  - ▶ Formation of implementation team
  - ▶ AMS selection methodology
  - ▶ Devising an implementation strategy
  - ▶ Tendering and awarding of contracts
  - ▶ Data gathering
- ▶ Insights into location hierarchy building
- ▶ Development of your spare parts management system
- ▶ What is required for and from the end user of the asset?
- ▶ Discussion on the post-implementation phase including elements such as:
  - ▶ System custody and support
  - ▶ Data gate keepers
  - ▶ Linking appraisals to data entry quality
  - ▶ AMS interface with a reliability system
  - ▶ Regular data monitoring and cleaning
  - ▶ Peer review for system performance
  - ▶ Continuous system upgrade and improvement

### Who should attend?

Asset Integrity: Head/Lead/Manager  
Reliability, Inspection, Maintenance: Head/Lead/Engineer  
Operations, Production, Process Safety, HSE: Advisor/Engineer

Workshop led by:



**Ahmed Said Kotb**

Team Leader – Asset Management  
**ADMA-OPCO**

Ahmed Said Kotb has more than 27 years of experience in Maintenance and Shutdown Planning in the Oil and Gas Industry with Major Companies: Shell and BP. Currently he is an Asset Management Team Leader in Abu Dhabi Marine Operating Company (ADMA-OPCO) which is the largest oil producer from marine fields in UAE.

Due to his previous experience in several implementations of CMMS, Ahmed was appointed to lead the Implementation Project of the Asset Management System for ADMA-OPCO's new (green) fields. These are mega projects that comprise two super complexes, two artificial islands, 17 wellhead towers and other associated pipelines and facilities. The estimated number of assets/tag numbers included in the implementation is 170,000 assets and tags. He is also coordinating with projects, EPC contractors and company stakeholders to establish the maintenance requirements of the new fields before the start-up.

### Workshop B:

1115 – 1345 (with 30 minutes break)

## Addressing Pipeline Integrity Issues Due to Erosion Exposure at Highways and Waterway Crossings: Techniques and Case Studies

This workshop presents a detailed case study on how to ensure the safety of river-crossing pipelines which were earlier laid using HDD and open-cut methods. It also explains how the integrity of pipelines crossing junctions and other operators' pipeline networks can be cost effectively improved.

Many incidents of pipe ruptures and exposures across river crossings due to floods are reported in India and across Asia. In most cases the pipelines were laid by conventional open-cut method in which the cover to the pipeline was limited up to 3M – 5M depending upon their scour depth. More recently, pipeline laying across major rivers with high scour depth, flood history and erosive banks, were executed with more advanced methods such as HDD and micro tunnelling.

The East-West Pipeline of RGTIL which runs to a total length of 1450 km. was also laid with HDD method with a considerable cover of about 30 mtrs. The recent River Narmada erosion incident in which a couple of pipelines snapped and many pipelines were exposed, served as an eye opener for most regional pipeline operators.

### Key Learnings:

- ▶ Comparing various bank protection measures for pipelines including pipe anchoring mechanisms
- ▶ Innovative sheet piling mechanisms to arrest pipeline sway and hence prevent soil erosion-related exposures
- ▶ The new technique of using sheet piles and terminating at a minimum of 2 mtrs. below the ground level
- ▶ A cost-benefit analysis of the piling method against the conventional methods

### Who should attend?

Asset Integrity: Head/Lead/Manager  
Reliability, Inspection, Maintenance: Head/Lead/Engineer  
Static Equipment/Pipelines: Integrity Manager/Engineer

Workshop led by:



**Alok Gurtu**

Head – Pipeline Integrity

**RELIANCE GAS TRANSPORTATION INFRASTRUCTURE**

Alok Gurtu has more than 21 years' experience in the operation & maintenance of pipelines including cathodic protection. He established the pipeline integrity management system in RGTIL and now has been tasked to provide PIMS for other Reliance Group Pipelines in India. Some of the important assignments being carried out presently are commissioning of ICCP for EWPL, mitigating severe DC & AC interference problems, intelligent pigging of EWPL, detailed study on debris analysis, repair & rehabilitation program based on ILI findings. He has been a member of PNGRB team in formulating new standards for PIMS.



### Workshop C:

1445 - 1715 (with 30 minutes break)

## Planning, Scheduling and Auditing Maintenance for Ageing Assets: How to Create a Practical Matrix for Higher Operational Efficiency?

The challenges associated with the maintenance of ageing assets get more complicated when considered alongside the lack of coordination with, and differing priorities of, the stakeholders involved.

Accessing information related to the ages of equipment and maintenance history of assets, along with the demand for continuous production, is a certain pitfall a maintenance planner faces.

This workshop will help you to identify the parameters needed to create a practical matrix for planning/scheduling the maintenance for ageing assets.

#### Key Learnings:

- ▶ How to coordinate with production, process safety and inspection/maintenance
- ▶ Planning for routine and scheduled maintenance
- ▶ Preparing for unscheduled maintenance and resource/inventory planning
- ▶ Controlling cost, and optimising investment into planning solutions/software
- ▶ Auditing contractors, process safety and instrumentation

#### Who should attend?

Asset Integrity: Head/Lead/Manager  
Reliability, Inspection, Maintenance: Head/Lead/Engineer  
Planning, Operations: Manager/Planner/Advisor



#### Marwan Elbendary

Senior Operations & Maintenance Planner  
CNOOC

Marwan manages, supervises and coordinates turnarounds, shutdowns and maintenance activities for 9 de-gassing stations and supply crude oil flow lines of 3 oil fields for the best interest of the production department.

#### His responsibilities in CNOOC include:

- ▶ developing tag number codes for all equipment according API 689 standard
- ▶ developing and implementing maintenance strategies, policies and procedures
- ▶ issuance of technical and analytical reports & KPIs
- ▶ commissioning and starting-up API-610 centrifugal pumps/ fisher 2502 pneumatic controllers experience
- ▶ operating degassing stations and analysing piping corrosion

## PARTNERING WITH US

### Extending Service Life and Minimising Downtime of Ageing Assets

With **more than 80% of the hydrocarbon assets** in the region well past their design service life, asset leaders and heads of maintenance must:



Maintain optimal output from the diminishing reserves



Enhance the integrity of existing assets



Minimise the downtime of productive assets

At the **4th annual Asset Integrity Management Summit Asia**, Heads of asset integrity, Leads of Engineering Maintenance and HSE Advisors will outline which solutions/services they are buying to help overcome these challenges:

- ▶ New material/equipment/technology improving integrity
- ▶ Gap analysis in process and integrity and risk mitigation
- ▶ Ageing simulation and predictive maintenance planning
- ▶ Isolation testing techniques and more.

### Who will you meet?

- ▶ Heads of: Asset Integrity
- ▶ Leads of: Reliability, Inspection & Maintenance
- ▶ Advisors/Specialists of: Process Safety and HSE
- ▶ Principal Engineers/Chief of Integrity of: Rotating Equipment and Pipeline Network

Looking to grow from 180+ participants in 2013, the event will ensure high level interaction between participants through panel/round table discussions and structured streams - facilitating closer techno-commercial discussions.

Tell us what you are looking to achieve: thought leadership, rebranding, retention, networking or re-launching of a solution.

Whatever your goals are, we will be happy to assist you and create a platform that best suits you and the industry's needs.

All packages can be tailor-made to suit your business needs and budgets from headline and associate partnerships to simple onsite branding or collateral.

For more information please contact us at [enquiry@iqpc.com.sg](mailto:enquiry@iqpc.com.sg)

Media Partners:



Singapore  
Oil and Gas



Worldoils

E&P Daily

Oil Patch Asia LLC

upstream  
The International Oil & Gas Newspaper



# REASONS TO PARTNER

# 2



## Plenary or Panel Session

Sponsoring one of these sessions will allow you to reach the entire Asset Integrity audience whilst they gain knowledge to create their 12 to 18 month strategies. It will provide your company with the perfect platform to be seen as the only partner to enable them to achieve their business goals.

# 3



## Stream Session

Demonstrate your expertise in a specific field to a more targeted audience. It will allow you to delve into more detailed case studies or research to a highly motivate and attentive audience actively looking at making changes or finding solutions in your field.



## Thought Leadership

This is an excellent opportunity to position your business as an expert in a particular field, whilst aligning your brand and key message with strength of the Asset Integrity Asia Summit. It is a great way to raise your company's profile throughout the industry, showcasing your knowledge and expertise and creating new conversations with potential and current clients.

## Sponsorship opportunities to achieve your objectives

Position your business as a leader and integral part of the Asset Integrity Asia Summit. Be seen regionally and globally as an authority on business growth, cost cutting, talent management and value added solutions through thought leadership, networking with the key decision makers and showcasing your brand to a regional audience.

# 4



## Breakfast, Lunch or Dinner Briefings

Get closer to your key prospects at the Asset Integrity Asia Summit by inviting them to a VIP sit down meal briefing. Host the discussion, give an informative speech or use it as a relationship building exercise. This offers you an unrivalled networking opportunity with active and key prospects.

# 5



## Take a stand!

There are over 12 hours of core networking time over the two days of the Asset Integrity Asia Summit. Reinforce your company brand and create a comfortable meeting point for the Asset Integrity team to introduce you to your choice of prospects from a list of profiled decision makers from across the market.



# ASSET INTEGRITY MANAGEMENT SUMMIT ASIA 2014

- Pre Conference Masterclass:  
**10 November 2014**
- Main Conference:  
**11 – 12 November 2014**
- Post Conference Workshops:  
**13 November 2014**

Please complete in BLOCK CAPITALS as information is used to produce delegate badges.  
Please photocopy for multiple bookings. Your priority registration code is printed below. Please quote it when registering.

**EVENT CODE: 18072.005 PDFW**

**BOOK AND PAY BEFORE 06 SEPTEMBER 2014 AND SAVE \$900 ON THE CONGRESS PACKAGE!**

## CONFERENCE PACKAGES

ALL PRICES SHOWN ARE IN US DOLLARS

### OIL & GAS COMPANIES/REFINING/PETROCHEMICAL FIRMS

	EARLY BIRD PRICE PAYMENT BEFORE 06 SEPTEMBER 2014	STANDARD PRICE PAYMENT AFTER 06 SEPTEMBER 2014
<input type="checkbox"/> All Access Pass (Conference + 3 Workshops + Masterclass)	<b>4,195</b> (SAVE 900)	<b>4,295</b> (SAVE 800)
<input type="checkbox"/> Conference + 2 Workshops + Masterclass <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>3,696</b> (SAVE 800)	<b>3,896</b> (SAVE 600)
<input type="checkbox"/> Conference + 1 workshop + Masterclass <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>3,397</b> (SAVE 500)	<b>3,497</b> (SAVE 400)
<input type="checkbox"/> Conference + Masterclass	<b>2,998</b> (SAVE 300)	<b>3,098</b> (SAVE 200)
<input type="checkbox"/> Conference + 3 Workshops	<b>3,396</b> (SAVE 700)	<b>3,496</b> (SAVE 600)
<input type="checkbox"/> Conference + 2 Workshops <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>2,997</b> (SAVE 500)	<b>3,097</b> (SAVE 400)
<input type="checkbox"/> Conference + 1 Workshop <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>2,598</b> (SAVE 300)	<b>2,698</b> (SAVE 200)
<input type="checkbox"/> Conference Only	<b>2,099</b> (SAVE 200)	<b>2,299</b>
<input type="checkbox"/> Workshop Only <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		<b>599</b>
<input type="checkbox"/> Full Day Masterclass Only		<b>999</b>

### TECHNOLOGY/EQUIPMENT/MATERIAL PROVIDERS

	EARLY BIRD PRICE PAYMENT BEFORE 06 SEPTEMBER 2014	STANDARD PRICE PAYMENT AFTER 06 SEPTEMBER 2014
<input type="checkbox"/> All Access Pass (Conference + 3 Workshops + Masterclass)	<b>4,595</b> (SAVE 900)	<b>4,695</b> (SAVE 800)
<input type="checkbox"/> Conference + 2 Workshops + Masterclass <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>4,096</b> (SAVE 800)	<b>4,296</b> (SAVE 600)
<input type="checkbox"/> Conference + 1 workshop + Masterclass <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>3,797</b> (SAVE 500)	<b>3,897</b> (SAVE 400)
<input type="checkbox"/> Conference + Masterclass	<b>3,398</b> (SAVE 300)	<b>3,498</b> (SAVE 200)
<input type="checkbox"/> Conference + 3 Workshops	<b>3,796</b> (SAVE 700)	<b>3,896</b> (SAVE 600)
<input type="checkbox"/> Conference + 2 Workshops <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>3,397</b> (SAVE 500)	<b>3,497</b> (SAVE 400)
<input type="checkbox"/> Conference + 1 Workshop <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C	<b>2,998</b> (SAVE 300)	<b>3,098</b> (SAVE 200)
<input type="checkbox"/> Conference Only	<b>2,499</b> (SAVE 200)	<b>2,699</b>
<input type="checkbox"/> Workshop Only <input type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C		<b>599</b>
<input type="checkbox"/> Full Day Masterclass Only		<b>999</b>

- Discounts DO NOT apply to master class(es)-only bookings
- Registrations without immediate payment or credit card details will incur a processing fee of USD99 per registration

### DELEGATES REGISTRATION DETAILS

Title:  Mr.  Mrs.  Ms.  Dr.  Other

First name:  Surname:

Job Title:  Department:

Email Address:  Company:

Address:

Country:  Postcode:

Telephone: OFFICE  MOBILE  Fax:

Approving Managers Name:

Email Address:

Delegates Signature:  Approving Managers Signature:  Date: DD / MM / YYYY

I agree to IQPC's payment terms.

If the invoice is to be addressed for the attention of a different person than the delegate, please complete the details below:

First name:  Surname:

Email Address:  Telephone: OFFICE

If you have not received an acknowledgement before the conference please call us on +65 6722 9388 to confirm your booking.

### PAYMENT METHOD

I WISH TO PAY BY CHECK / BANK DRAFT: MADE PAYABLE TO IQPC WORLDWIDE PTE LTD

I WISH TO PAY BY CREDIT CARD: PLEASE DEBIT MY CREDIT CARD

Card Type:  Visa  MasterCard  American Express  Expiry Date: MM / YY / YY / YY

Card Number:  /  /

Name Printed on the Card:

Signature:  Date: DD / MM / YYYY

BY DIRECT TRANSFER Please quote **EVENT CODE** with remittance advice

**IQPC Bank Details:** Account Name: IQPC Worldwide Pte Ltd Bank Number: 7232  
Account Number: 260-085824-690 Swift Code: HSBCSGSG  
Bank Address: The Hong Kong and Shanghai Banking Corporation, 21 Collyer Quay,  
#08-01 HSBC Building, Singapore 049320  
Correspondent Bank: HSBC Bank USA, New York  
Swift Code for Correspondent Bank: MRMDUS33

All bank charges to be borne by the payer. Please ensure that IQPC receives the full invoiced amount.

### 5 WAYS TO REGISTER

- +65 6722 9388 enquiry@iqpc.com.sg
- +65 6720 3804 www.assetintegritysummit.com
- IQPC Worldwide Pte Ltd, 61 Robinson Road,  
#14-01 Robinson Centre, Singapore 068893

### TEAM DISCOUNTS

IQPC recognises the value of learning in teams. Group bookings at the same time from the same company receive these discounts:

- 3 or more 7%
- 5 or more 10%
- 8 or more 15%

This offer is exclusive of the early bird discount. Call us for a special discount rate for teams of 10 and above.

Not applicable to workshop(s) only bookings.

### VENUE & ACCOMODATION

#### InterContinental Kuala Lumpur

165 Jalan Ampang  
50450 Kuala Lumpur, Malaysia  
Tel: +60 3 2161 1111  
Fax: +60 3 2161 1122  
Web: www.intercontinental-kl.com.my

Hotel accommodation and travel costs are not included in the registration fee. A reduced corporate room rate has been arranged at **InterContinental Kuala Lumpur** for attendees at this conference. To take advantage of this special rate, please process the hotel room reservation form provided upon confirmation of your attendance.

### CONFERENCE DOCUMENTATION

- I am registering as a delegate, please send me an extra set of Conference Documentation with Audio CD with a USD100 discount: USD699.
- I cannot attend the event, please send me the Conference Documentation and Audio CD at USD799.
- I cannot attend the event, please send me the Conference Documentation only at USD549.

Orders without immediate payment or credit card details will incur a processing fee of USD99 per order.

(N.B. Advance orders will determine whether or not this conference will be recorded - Please enclose payment with your order.)

Any custom duties & taxes imposed on the shipment of order/s shall be borne by the recipient.

### IQPC CANCELLATION, POSTPONEMENT AND SUBSTITUTION POLICY

- You may substitute delegates at any time by providing reasonable advance notice to IQPC.
- For any cancellations received in writing not less than eight (8) days prior to the conference, you will receive a 90% credit to be used at another IQPC conference which must occur within one year from the date of issuance of such credit. An administration fee of 10% of the contract fee will be retained by IQPC for all permitted cancellations. No credit will be issued for any cancellations occurring within seven (7) days (inclusive) of the conference.
- In the event that IQPC postpones an event for any reason and the delegate is unable or unwilling to attend in on the rescheduled date, you will receive a credit for 100% of the contract fee paid. You may use this credit for another IQPC event to be mutually agreed with IQPC, which must occur within one year from the date of postponement.
- Except as specified above, no credits will be issued for cancellations. There are no refunds given under any circumstances.
- IQPC is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. IQPC shall assume no liability whatsoever in the event this conference is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, unforeseen occurrence or any other event that renders performance of this conference impracticable, illegal or impossible. For purposes of this clause, a fortuitous event shall include, but not be limited to: war, fire, labor strike, extreme weather or other emergency.
- Please note that while speakers and topics were confirmed at the time of publishing, circumstances beyond the control of the organizers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. As such, IQPC reserves the right to alter or modify the advertised speakers and/or topics if necessary without any liability to you whatsoever. Any substitutions or alterations will be updated on our web page as soon as possible.

### DISCOUNTS:

All 'Early Bird' Discounts require payment at time of registration and before the cut-off date in order to receive any discount. Any discounts offered whether by IQPC (including team discounts) must also require payment at the time of registration. All discount offers cannot be combined with any other offer.

### YOUR DETAILS:

Please email our Database Manager at enquiry@iqpc.com.sg and inform them of any incorrect details which will be amended accordingly.

### DATA PROTECTION:

Personal data is gathered in accordance with the Data Protection Act 1984. Your data may be passed to other companies who wish to communicate with you offers related to your business activities. If you do not wish to receive these offers, please tick the box below.

Please do not pass my information to any third party.

### PAYMENT TERMS

Registrations/orders received without immediate payment or credit card details will incur a processing fee of USD99 per registration/order. Payment is due in full upon receipt of invoice. Full payment prior to the event is mandatory for attendance.

**IQPC WORLDWIDE PTE. LTD.**  
Company Registration No: 199702288Z

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