Unrivalled Oil & Gas Case Studies:

- **Talisman Malaysia** on barrier and process safety management
- **Egyptian LNG** on AIM strategy development
- **MODEC** on software solutions for FPSO AIM
- **PT Pertamina Hulu Energi** on risk-based inspection
- **Saudi Aramco** on cathodic protection designs
- **RasGas** on offshore coating technologies
- **Bumi Armada** on Corrosion under Insulation
- **BP GUPCO** on intelligent pipeline pigging
- **ADCO** on the direct assessment of non-piggable pipelines
- **2H Offshore** on life extension for deepwater risers
- **Pico International Petroleum** on compliance with performance standards and Safety Critical Elements
- **ONGC** on emergency response and repair systems

The Offshore Event Not to Be Missed

- **Asia’s ONLY** Offshore Asset Integrity Management Conference
- **15+ Expert speakers** from oil and gas majors, FPSO, drilling rig and pipeline owners & operators
- **10+ Case studies** from Asia, the Middle East, the Americas and Europe
- Addressing the full offshore AIM project cycle from design and engineering through to operation and maintenance
- Covering structural, pipeline and topside asset integrity management for offshore assets

Pre-Conference Workshop | Tue, 25 June 2013 | 9am – 5pm
**Offshore Pipeline Integrity Management**
Post-Conference Workshop | Fri, 28 June 2013 | 9am – 5pm
**Optimizing Your Corrosion Control Strategy**
Wednesday, 26 June 2013

**10.00** Optimizing Design, Engineering & Structural Integrity for Jacket Platforms: A Case in Malaysia
- Incorporating AIM procedures in the design and engineering phases to prolong operational life and limit unplanned shutdowns
- The key features of a jacket platform Structural Integrity Management (SIM) strategy
- Examples of integrity challenges encountered
- Suitable interface management to integrate the different elements of the overall offshore structure

Dr. Narayanan Sambu Potty, Associate Professor, Universiti Teknologi Petronas, Malaysia

**10.40** Morning Networking & Refreshment Break

**11.10** Intelligent Pigging for Pipeline Integrity Management
- Explaining the process of pipeline pigging: operational and intelligent pigging
- Understanding the advantages of intellectual pigging in facilitating pipeline inspection, assessment and maintenance
- BP GUPCO’s best practices and ways to move forward

Sherif Anwar, Senior Corrosion and Material Specialist, BP GUPCO, Egypt

**11.50** Innovative Inspection and Monitoring Methods for Non-Piggable Pipelines
- Defining a non-piggable pipeline
- Assessment and inspection challenges in the absence of pigging data
- Techniques in dealing with non-piggable pipelines: direct assessment methods

Mohamed Daoud, Project Quality Manager, ADCO, UAE

**12.30** Networking Luncheon

**13.50** Offshore Pipeline Maintenance and Integrity Management
- Challenges in the maintenance, repair and refurbishment of subsea pipelines
- Heightened environmental and operational risks in monitoring deepwater/ High Temperature High Pressure (HTHP) pipeline systems
- Understanding corrosion development on pipelines
- Strength assessment of corrosion defects in pipelines
- Innovative coating and insulation technologies to increase operational efficiency

Sherif Anwar, Senior Corrosion and Material Specialist, BP GUPCO, Egypt

**14.00** Implementing a Corrosion Management Strategy for Offshore Oil & Gas Assets
- Examples of internal corrosion issues throughout the lifecycle of the offshore asset
- Corrosion alleviation techniques
- Corrosion monitoring and protection systems: the latest offshore coating technologies
- Frequent issues with stress corrosion cracking

Rehan Ahmed, Corrosion Engineering Specialist, RasGas, Qatar

**15.20** The Latest Cathodic Protection Designs for FPSO and Fixed Offshore Structure Hulls
- Operational similarities for hulls of floating production systems and fixed platforms: usage of the coating system over the entire design life without refurbishment and dry-docking
- Cathodic protection systems: impressed current versus sacrificial anode designs
- Applying hull antifouling coatings to minimize marine growth and increase hull life span
- Dehumidification methods to mitigate corrosion on voided tanks

Husain Mahrous, Cathodic Protection Specialist, Saudi Aramco, Saudi Arabia

**16.00** Afternoon Networking & Refreshment Break

**16.30** Combating Corrosion under Insulation
- Identifying the types and causes of Corrosion under Insulation (CUI)
- Selecting the right inspection technique
- Applying new materials and techniques to avoid moisture build-up and achieve rust prevention
- Using thermography technology to track down CUI spot, minimize inspection and insulation reinstallation costs

Nasrul Salman, Corrosion & Technical Integrity Specialist, Bumi Armada, Malaysia

**17.10** Fatigue Life Improvement for Shallow Water Conductors & Deepwater Riser Systems
- Calculation of the remaining life span for an ageing offshore asset
- Operating an asset beyond its original design lifecycle: cost and safety considerations
- Upgrading and refurbishment options for shallow water conductors and deepwater risers
- Challenges and case study examples

Shreenaath Natarajan, Technical Manager, 2H Offshore, Singapore

**17.50** Chairman’s Summary of the Day

**18.00** End of Conference Day One
Process Safety in Offshore Asset Integrity Management

09.10 Optimal Barrier & Process Safety Management
- Defining AIM barriers for plants, people and processes
- Creating and sustaining barriers throughout the operation lifecycle:
  - Design and build integrity
  - Operational and maintenance integrity
- Effectiveness of Barriers
  - Barrier Assurance
    - Effective barrier identification
    - Setting pass and fall criteria for each barrier
    - Monitoring and reporting the healthiness of the barrier
    - Timely response in case of barrier deviation from the required standards
- Ensuring the collective monitoring of barriers
- Introducing Responsible, Accountable, Consulting and Informed (RACI) processes at all levels
- Execution challenges: standards and compliance, technical competency and leadership
- Prevention, detection, control, mitigation and emergency response

Richard Jones, Regional Authority for Engineering and Maintenance, International Operations, East, Talisman Energy, Malaysia
Vik Munusamy, Regional Process Safety Authority, International Operations, East, Talisman Energy, Malaysia

09.50 Streamlining Process Safety & Offshore Asset Integrity: Safety Critical Elements, Performance Standards and Verification Schemes
- Defining Major Accident Hazards and Safety Critical Elements (SCEs)
- Differentiating between SCEs and Safety Critical Equipment
- Determining Performance Standards for each SCE
- Establishing SCE verification schemes: audit and written examination procedures
- Developing Key Performance Indicators (KPIs) at company level and industry-wide to enforce compliance
- Adopting a proactive approach to handle nonconformity

Sherif Amin, HSE Director, PICO International Petroleum, Egypt

10.30 Morning Networking & Refreshment Break

Intelligent Solutions for Offshore Asset Integrity Management

11.00 Developing Software Systems for FPSO Asset Integrity Management
- Introducing the COABIS software for AIM
  - Applicable to the entire FPSO fleet
  - Enabling the input of Non-Destructive Testing (NDT) and corrosion coupon data and the re-assessment of asset integrity strategies
  - Cost-efficient
- Methods to mitigate internal corrosion: the usage of Ti-alloys, cupro nickel, duplex and super duplex stainless steel, carbon steel and corrosion inhibitors
- Painting systems to reduce external corrosion
- Applying conventional and unconventional Ultrasonic Testing (UT) techniques: phase array UT

Subhankar Maiti, Materials and Corrosion Specialist, MODEC, India

11.40 Offshore Asset Integrity Management: From Preventive to Predictive
- Evaluating the trend on offshore asset integrity management
- Evergreening asset integrity with integrated software solutions
- Quantitative risk assessment in the evergreening integrity management loop
- Understanding the issues in managing asset integrity for offshore structures, pipelines, and topside process equipment

Tommy Tang, Regional Business Development Manager, Det Norske Veritas Software, China

12.20 Networking Luncheon

Risk Management: Evaluation & Inspection

13.40 Risk Assessment & Risk-Based Inspection (RBI) for Offshore Installations
- Identifying major accident hazards and subsequent hazardous events: flammable hydrocarbon release including gas explosion, jet fire, oil spill, ship collision
- The reasons behind adopting Risk-Based Inspection (RBI) methods
- Integrated risk assessment combining qualitative and quantitative principles
- Fitness for service analysis for topside equipment (mechanical and pressurized system), structural platforms, risers and subsea pipelines

Ahmed Taufik, Technical Manager, PT Pertamina Hulu Energi (PHE-ONWJ), PT, AT Solusi, Indonesia

Maximizing Operational Safety Offshore

14.20 Compliance with Performance Standards & Safety Regulations: Establishing the Right Safety Case
- A close look at the current global offshore oil and gas regulatory environment in the aftermath of the Macondo and Piper Alpha offshore disasters
- The need to meet voluntary standards in the absence of industry-wide enforceable regulations
- Establishing a comprehensive safety case regime to maximize safety, operational and production efficiency
- Shifting from a prescriptive to a goal-setting safety case approach

Sherif Amin, HSE Director, PICO International Petroleum, Egypt
Richard Jones, Regional Authority for Engineering and Maintenance, International Operations, East, Talisman Energy, Malaysia

15.10 Afternoon Networking & Refreshment Break

The Human Factor in Offshore Asset Integrity Management

15.40 Training, Leadership & Organizational Communication for Effective Offshore Asset Integrity Management
- Key factors to efficient AIM and safe offshore operations: Technical competency, organizational communication and strong leadership
- Developing the right organizational culture: awareness about AIM, HSE regulations and Human Error Reduction strategies
- Reinforcing AIM – technical and maintenance management – training
  - at the operational/supervisory level
  - at the tactical/managerial level

Lateef Siddiqui, Fleet Director, Offshore, V Ships Asia, Singapore

Emergency Response & Damage Rectification

16.20 Emergency Response & Repair Systems as Part of the Offshore Asset Integrity Management Program
- Continuous efforts to improve emergency response and preparedness in India’s offshore oil and gas industry
- Devising a comprehensive contingency plan in the case of accidents
- Repair and restoration options and challenges
- Incorporate preventative maintenance in AIM practices: the Indian perspective

Ashanendu Mandal, Deputy General Manager, Production,ONGC, India

17.00 Chairman’s Summary of the Day
17.10 End of the Offshore AIM Conference
Pre-Conference Workshop: Tuesday 25 June 2013 | 9am – 5pm

Offshore Pipeline Integrity Management

There is a common misconception that Oil and Gas Asset Integrity Management pertains to big industry players and encompasses exclusively topside and structural integrity management. However, besides topsides and structures, the inspection, maintenance, refurbishment and repair of subsea pipelines form an equally crucial element of an effective AIM framework.

With a combination of technical lectures, case studies from across the offshore sector and interactive group activities, this full-day workshop shows how to integrate pipeline integrity management into the overall AIM mechanism, feasible for not only oil and gas majors, but all industry stakeholders. At the end of the day, each participant will have a confident grasp of the right offshore pipeline integrity management strategy:

- The concept of AIM
- Pipeline integrity management techniques through the whole life cycle of the project
- Pipeline standards and legal requirements
- Challenges for pipeline operators
- Pipeline inspection and leak detection
- Information management
- Flow assurance
- Operator competence assurance
- Contractor ad partner management
- Emergency preparedness
- Pipeline decommissioning

About Your Workshop Leader:
Sherif Amin
HSE Director,
Pico International Petroleum, Egypt

Sherif has more than 40 years of experience in the management and control of work sites in oil and gas fields ensuring work integrity and effectiveness. Working for multinational organizations in Egypt and overseas, Sherif has been heavily involved as projects site manager and field manager in the development and operational phases of major offshore production fields in the Red Sea area. Sherif then moved to senior management positions in highly respectable oil and gas organizations including the Petroleum Safety and Environmental Services Company and the Egyptian General Petroleum Corporation. He joined Pico as HSE Director contributing to the development of HSE integrated management systems for Pico and its affiliated companies in Egypt and overseas.

Post-Conference Workshop: Friday 28 June 2013 | 9am – 5pm

Optimizing Your Corrosion Control Strategy

Monitoring, identifying and alleviating corrosion on offshore assets takes up a dominant part of a good AIM system. Whether it’s a floating production system, a fixed platform, a drilling rig or a subsea pipeline, preventative maintenance, inspection and mitigation methods need to be put in place to avert and/or minimize the harmful effects of corrosion. This comprehensive class will walk you through different types, causes, evaluation, prevention and remediation techniques for corrosion covering:

- Metallurgical Failure Analysis (MFA) to ensure the effective prevention and mitigation of corrosion
- External Corrosion Direct Assessment (ECDA) to support pipeline integrity and risk management
- Risk-Based Inspection (RBI) and Non-Destructive Testing (NDT)
- Corrosion resistant coatings to ensure maximum protection
- Corrosion Under Insulation (CUI)

At the end of the workshop, participants will be able to:

- Identify the types and cost of corrosion and its impact on AIM planning
- Select the right monitoring, prevention and mitigation methods
- Gain an overview of resources training, organizational awareness and management responsibilities in corrosion control
- Develop a comprehensive Corrosion Management Framework

About Your Workshop Leader:
Sherif Anwar
Senior Corrosion and Material Specialist,
BP GUPCO, Egypt

Sherif boasts long-standing expertise in the monitoring, investigation and study of the corrosion status of plant equipment, structures, pipelines and related facilities. He is a specialist in devising appropriate corrosion protection action plans in order to safeguard plant and equipment and minimize deterioration. Sherif is also a distinguished member of the Egyptian Corrosion Society and the Society of Petroleum Engineers.
With Asia’s offshore structures entering into the ageing phase due to extended offshore field development, the responsibilities of Operations, Maintenance and Asset Integrity Managers have expanded to comprise structures, processes and people.

Addressing the issues faced by these professionals, IBC’s Offshore Asset Integrity Management (AIM) Conference is Asia’s FIRST offshore asset integrity event covering quintessential design, technical and operational integrity challenges and solutions.

The conference offers an outstanding occasion for oil and gas majors, FPSO, offshore platform and subsea pipeline owners and operators to explore strategies in advancing operational efficiency and safety, while simultaneously achieving maximum investment return.

Grab this opportunity and master the ins and outs of the right offshore oil and gas AIM strategy targeting:
- Fast-track design, engineering and installation
- Cost-effective and accident-free operation
- Exploration & Production efficiency
- Viable life cycle extension

**KEY TOPIC HIGHLIGHTS:**
- The Right Offshore Asset Integrity Management Framework
- Design, Engineering & Structural Integrity Management for Offshore Structures
- Life Extension for Ageing Offshore Assets
- Offshore Pipeline Integrity Management
- Corrosion Protection & Control
- Intelligent Solutions for Offshore Asset Integrity Management
- Risk-Based Inspection for Offshore Assets
- Process Safety in the Offshore Industry
- The Human Factor in Offshore Asset Integrity Management
- Offshore Emergency Response & Damage Rectification

**WHO YOU WILL MEET?:**

- Oil & Gas 25%
- FPSO Owner & Operator 20%
- Oil Platform/Rig Owner & Operator 10%
- Shipyard 5%
- Asset Integrity Services 15%
- EPC 10%
- Technology & Equipment 10%
- Classification & Inspection 5%
- Singapore/Malaysia 40%
- Indonesia/Vietnam/Philippines/Thailand 20%
- Indian Subcontinent 10%
- Middle East 10%
- North-Asia 10%
- US/Europe/Australia 10%

**WHY YOU SHOULD SPONSOR?:**

Offshore AIM offers an exclusive occasion to position your company as a leading provider of AIM products, services and technologies and seek partnership opportunities with key offshore industry stakeholders. To discuss a customized Sponsorship & Exhibition package, please contact: Ms. Yvonne Leong | Email: yvonne.leong@ibcasia.com.sg | Tel: +65 6508 2489