



**Bahrain International Exhibition Centre** Manama, Kingdom of Bahrain 9-13 December 2007

#### PIPELINE REHABILITATION & MAINTENANCE CONFERENCE AND EXHIBITION

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# PRE-SHOW GUIDE

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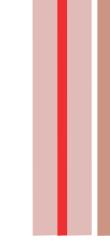
www.pipeline-rehab.com

# Welcome to Pipeline Rehabilitation & Maintenance Technology Conference and Exhibition

Current high oil and gas commodity prices make oil spills and vapor escapes from operating pipelines more costly than ever before. At the same time, public and governmental pressures on pipeline operators to protect air, water, and ground environments have never been greater.

The convergence of these factors heightens the need for pipeline operators to share experiences in monitoring and controlling system flows and diagnosing and rehabilitating lapses in line integrity. As Middle East producers and processors ramp up their operations to meet greater hydrocarbon energy demand, this conference stands as an established and leading forum in bringing together operating and service companies and their technical and management personnel to learn the latest and best in pipeline rehabilitation and maintenance.

The previous eight conferences have firmly established the value and need for an international specialised meeting to examine issues centered on the fitness for purpose question of oil and natural gas transmission lines.



Frances Webb Event Director

PennWell Petroleum Group

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## INFORMATION FOR VISITORS

#### **About Bahrain**

Bahrain has a prosperous economy based on its key industries of aluminium, oil and gas, metal and ship building and repair, financial services and tourism. Its major trading partners are Saudi Arabia, United States, India, Japan, UK, France, and South Korea.

Having been the first country in the region to discover oil in 1932, Bahrain's economy is now well diversified and the country is less dependent on oil than most other Gulf states. Petroleum production and processing in Bahrain accounts for about 60% of export earnings, 60% of government revenues and 30% of the country's GDP (currently \$25,300 per capita). Source: FCO, UK

Bahrain is strategically located at the heart of the key oil and gas markets in the Gulf, in particular Saudi Arabia and Qatar, making it an ideal location to host the 9th annual Pipeline Rehabilitation & Maintenance conference and exhibition. With its highly developed communication and transport facilities, Bahrain is home to many multinational companies.

In 2004 Bahrain signed the US-Bahrain Free Trade Agreement, with which the US intends to eliminate certain barriers to trade between the two nations

# Who should attend Pipeline Rehabilitation & Maintenance?

- Senior executive decision makers from international and regional oil and gas companies
- Pipeline inspection and maintenance engineers and managers
- Pipeline operators
- Operations managers and supervisors involved in planning and scheduling pipeline transmission
- Coating and corrosion engineers
- Service and equipment suppliers

#### **HOW DO I REGISTER?**

- Register FREE for the exhibition at www.pipeline-rehab.com
- Register yourself and your colleagues as conference delegates by 9 November and benefit from a \$200 EARLY BIRD DISCOUNT
- Either register online at www.pipeline-rehab.com, mail or fax back the form on page 10 to +1 918 831 9161

This registration is valid for Pipeline Rehabilitation & Maintenance and Oil & Gas Maintenance Technology

#### **ON-SITE REGISTRATION HOURS**

 Workshop Only: Sunday 9 December 2007
 07:30-17:00

 Monday 10 December 2007
 14:00-18:00

 Tuesday 11 December 2007
 07:30-17:30

 Wednesday 12 December 2007
 08:00-17:30

 Thursday 13 December 2007
 08:00-16:00

#### HOTEL INFORMATION

The Diplomat Radisson SAS Hotel & Spa BD 88 Single / BD 93 Double

InterContinental Bahrain BD 60 Single / BD 68 Double

Crowne Plaza Bahrain BD 60 Single / BD 68 Double

Rates subject to availability and only available via www.pipeline-rehab.com

# EXHIBITION OPENING HOURS

Monday 10 December 2007 16:30 - 18:30

Tuesday 11 December 2007 10:00 - 17:30

Wednesday 12 December 2007 10:00 - 17:30





## INFORMATION FOR EXHIBITORS

Oil & Gas Maintenance Technology and Pipeline Rehabilitation & Maintenance are co-hosted by Saudi Aramco and BAPCO and the combined events offer UNRIVALLED ACCESS to buyers and specifiers in the key national oil companies in the Middle East.

Exhibiting at this forum will provide opportunities to meet key decision makers relating to oil, gas and pipeline maintenance investment programmes throughout the Gulf and further afield throughout the Middle East.

#### Exhibiting at Pipeline Rehabilitation & Maintenance will provide opportunities to:

- Meet strategic decision makers face-to-face
- · Build relationships with clients and potential clients
- Raise brand awareness in the market place
- Source new suppliers and business partners

#### Other exhibitor benefits:

- Company listing on BOTH event websites
- Listing in the official 2007 Conference Programme -

including company contact details and a 30-word description of your company

#### Who will attend?

- Senior executive decision makers from international and regional oil and gas companies
- Inspection and maintenance engineers and managers
- Pipeline operators
- Operations managers and supervisors involved in planning and scheduling pipeline transmission
- Coating and corrosion engineers
- Service and equipment suppliers

#### What does it cost to exhibit?

Shell scheme: \$425 per square metre. Shell scheme includes:

white wall panels, fascia board with company name, 1 socket, 3 spotlights, carpet, 1 table,

2 folding chairs, 1 waste paper bin and basic stand cleaning

Space only: \$350 per square metre

# Enhance your presence at the event

#### Sponsorship opportunities

As one of our show sponsors, you'll benefit from increased association with the maintenance industry in the Gulf.

Whether your company is already well established in the Middle East or new to the region, we can tailor a unique sponsorship package that meets your event objectives.

#### Sponsorship opportunities include:

- ☆ Conference Delegate packs
- ☆ Welcome Reception
- ☆ Luncheon
- Tea and Coffee Breaks

# To reserve your exhibit space call your local representative:

**Event Director** Frances Webb

Phone: +44 (0) 1628 810 562 Fax: +44 (0) 1628 810 762 Email: francesw@pennwell.com Jon Franklin (UAE, UK, Ireland, Scandinavia)

Phone: +44 (0) 1992 656 658 or +44 (0) 7985 229 324 Fax: +44 (0) 1992 656 700

Email: jfranklin@pennwell.com

Jane Bailey (Middle East, Europe & Asia)

Phone: +44 (0) 1992 656 651 or +44 (0) 7983 388 367

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Boost the profile of your brand or company by taking advantage of special advertising rates in the flagship media sponsor titles: Oil & Gas Journal, Oil, Gas & Petrochem Equipment and Offshore magazine. All three titles will benefit from bonus distribution at the event.

Oil & Gas Journal

Print: +1 713 963 6274 or +1 713 963 6293 Digital: +1 713 963 221

www.ogj.com

Oil, Gas & Petrochem Equipment

Print: +1 713 963 6223 Digital: +1 713 963 6221

www.ogpe.com

Offshore magazine

Print: +1 713 963 6206 Digital: +1 713 963 6208 www.offshore-mag.com







# PIPELINE REHABILITATION & MAINTENANCE PRE-CONFERENCE WORKSHOPS

THE DIPLOMAT RADISSON SAS HOTEL & SPA, MANAMA, BAHRAIN 9-

9-10 DECEMBER 2007

# Workshop A: Introduction to In-Line Inspection of Pipelines

#### **Level: In-Depth Introduction**

#### **Course Content**

#### 1. Introduction

#### 2. Flaws and Defects in Pipelines

- 2.1 Pipeline materials
- 2.2 Types of pipelines
- 2.3 Geometric Anomalies
- 2.4 Metal Loss
- 2.5 Cracks and Crack-Like Defects
- 2.6 Leaks
- 2.7 Failure Modes

#### 3. Pipeline Inspection

- 3.1 Hydro- and Stress testing
- 3.2 In-line Inspection
- 3.3 External Inspection

#### 4. Non-Destructive Testing and In-Line Inspection

- 4.1 Metal Loss Survey Tools
- 4.1.1 Magnetic Flux Leakage Tools
- 4.1.2 Ultrasound Tools
- 4.2 Ultrasound Technology
- 4.3 Inertia or Mapping Tools
- 4.4 Caliper Tools
- 4.5 Crack Detection Tools

#### 5. In-Line inspection Tools

- 5.1 Overview of tools (pictures)
- 5.2 Overview of vendors

#### 6. Pipeline Inspection Procedures

- 6.1 Planning an inspection
- 6.2 The Technical Questionnaire
- 6.3 Preparing the Pipeline for an Inspection
- 6.4 Tool Traps
- 6.5 Pipeline Cleaning
- 6.6 Pipeline Gauging
- 6.7 Performing the Inspection
- 6.7.1 Batching
- 6.7.2 Tracking
- 6.7.3 Safety
- 6.7.4 Launching, Receiving etc.
- 6.7.5 Data Check

#### 7. Reporting

- 7.1 Data Evaluation
- 7.2 Sample Report
- 7.3 Feature Localization
- 7.4 Feature List
- 7.5. Final Report: What do you get
- 7.6 Verifications

#### 8. Integrity Assessment

- 8.1 Assessment of metal loss Defects
- 8.2 Crack Assessment
- 8.3 Run Comparisons
- 8.4 Corrosion Growth reports and estimated lifetime

#### **I ITFRATURF**

#### **Exercises**

The course also includes a workshop session and exercises covering the following topics:

Which Tool Does What? How to read Tool Data and Defect Specification Sheets Preparing an Inspection Project Data Analysis and MAOP

#### Lecturers:

Dr Michael Beller NDT Systems & Services AG Am Hasenbiel 6 76297 Stutensee Germany

Dr Konrad Reber TÜV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Köln Germany Aim: The course will provide an in-depth introduction into the subject of the in-line inspection of pipelines. The delegate will learn which part in-line inspection plays in the overall pipeline inspection and pipeline maintenance procedures. The course will introduce the flaws and anomalies observed in pipelines. In-Line inspection tools and the various physical principles they use will be covered in depth.

The material covers details on a pipeline inspection operation, including pipeline preparation, cleaning, gauging.

Final Reports, Reporting Formats are discussed. The course also includes an introduction into data analysis, integrity assessment and run comparisons. Special emphasis is placed on using data obtained from in-line inspection tools.

Target Group: Pipeline Engineers, technicians or other interested personnel from operators. Engineering consultants active in the field of NDT and Integrity Assessment. Personnel from the authorities or certification bodies involved with pipeline inspection and assessment.

Duration: 2 days

# PIPELINE REHABILITATION & MAINTENANCE PRE-CONFERENCE WORKSHOPS

#### 9-10 DECEMBER 2007



#### Workshop B: An Updated Look at Pipeline Rehabilitation

A two-day intensive course on current pipeline rehabilitation techniques being used around the world. The course features in-depth coverage of the engineering aspects of in-situ pipeline rehabilitation including topics such as working over operating pipelines, raising and lowering operating pipelines and determining safe operating parameters for reconditioning operating pipelines. Case studies of pipeline rehabilitation projects from around the world are presented and analyzed.

Draft procedures for performing field pipeline rehabilitation are included in the course materials. Ten popular pipeline coating systems are compared based on physical and application properties. A model for determining total applied costs of a coating allows the student to develop a cost comparison of the coatings for a specific project. In-plant rehabilitation of old pipelines is discussed including inspection methods to determine fitness for re-use.

#### **ABOUT THE AUTHOR**

Sid Taylor is the president of Incal Pipeline Rehabilitation, Inc., and has over 30 years' experience in the design and development of automated high-pressure water jet cleaning and coating systems. Sid has been awarded numerous U.S. and foreign patents for inventions in pipeline coating removal, surface preparation and coating application, has written and presented over 45 technical papers on pipeline rehabilitation, many of which have been published by leading industry journals.

## Workshop C: Maintenance of Pipelines Valves and Actuators

#### Valve Reliability

- Application
- Service Conditions
- Type of Valves
- **Functionalities**
- Materials
- Standards Overview
- Selection Methods
- Valve Reliability- Case Study
- Open Discussion

#### **Actuator Reliability**

- Application
- Service Conditions
- Type of actuators
- **Functionalities**
- Materials
- Standards overview
- Selection methods
- Actuator reliability-case study
- Open discussion

#### Valve-Actuator Sizing

- Standards
- Challenges in proper sizing
- Cost-Effective sizing
- Safety Considerations
- Operability and maintainability
- Case-study
- Open discussion

#### Valve Maintenance

- Valve Maintenance Case study
- Valve in-line maintenance
- Preventive maintenance
- Open Discussion

#### **Actuator Maintenance**

- Preventive maintenance for
  - Gas Operated Actuators
- Predictive maintenance for Motor Operated actuators
- Obsolescence criteria
- Maintenance optimization

#### **ABOUT THE AUTHOR**

Essam Al-Arfaj is a Pipeline Engineer with experience in valve and actuators engineering design, maintenance and operations. Mr Al-Arfaj graduated in Mechanical Engineering, specialized in Industrial Applications of valves and actuators, and has worked in Saudi Aramco Pipelines Maintenance and Engineering Departments. He has been involved in the valve actuator market since 1995, covering different positions then. Today he is working with Pipelines Specialist. Unit as Valve Specialist.

Pablo Genta is an Instrumentation and Control Engineer with experience in design, start-up and operations of control systems in gas treatment plants, and pipelines facilities in Middle East and the Americas. After obtaining his MS Degree in Electrical Engineering, Mr. Genta worked in process automation in the manufacturing industry. Since 1994 he worked for various engineering companies in oil & gas projects. He has published articles and papers on pipelines technologies, safety protection systems (ASSE) and solar energy technologies (WRENC). In 2003 Mr. Genta joined Saudi Aramco with the Pipelines Department as Instrumentation and Control engineer.

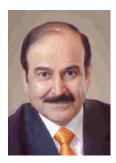
#### **SUMMARY**

#### **Target Group:**

Pipeline engineers, technicians and other personnel from pipeline operators and the oil and gas industries that deal with maintenance and operation of pipeline valves and actuators. Engineering consultants, inspectors and integrity assessment personnel from certification authorities involved with pipeline inspection and assessment.

This workshop will provide an introduction into maintenance and reliability aspects of pipelines valve and actuator through the presentations and analysis of case-studies taken from Saudi Aramco facilities. The delegate will be able to get acquainted of numerous

applications of valves and actuators in the vast Saudi Aramco pipeline network. The lecturers will introduce the challenges that operators and maintenance personnel face with the different valve and actuator technologies and how preventive and predictive maintenance help optimizing the maintenance job. This workshop will also provide an overview of various sizing techniques for valve and actuators and the importance of proper sizing to achieve reliability. This workshop is intended to develop in an interactive manner between lecturers and audience facilitating the exchange of experiences and discussion of the case studies presented. Photographs and engineering details are also provided.



H.E. Dr. Abdul-Hussain Bin Ali Mirza Minister of Oil & Gas Affairs and Chairman of National Oil & Gas Authority, Kingdom of Bahrain 15:00, Monday 10 December

H.E. Dr. Mirza was appointed Minister of Oil and Gas Affairs in December 2006. Before that he was appointed Minister of State in 2002 and Minister of Cabinet Affairs in 2004. Prior to naming him a Cabinet Minister he was Chief Executive of Bapco. Dr. Mirza hold a PhD in Change Management from the U.K.

Dr. Mirza is still Chairman of the NOGA and was previously Minister of State (Cabinet Affairs).



Dr Mustafa Alsayed Chief Executive, BAPCO

Dr Al-Sayed holds a Ph.D. in Industrial Management from the UK, a MSc. in Industrial Management from Ireland and a BSc. in Mechanical Engineering from the UK.

Dr. Al-Sayed is currently the Chief Executive of the Bahrain Petroleum Company B.S.C. and is also a fellow Member of the Bahrain Society of Engineers.



Mr Amer Al Sulaim
Executive Director of Industrial Services, Saudi Aramco

Mr Al-Sulaim holds a B.S. degree in Civil Engineering from KFUPM and an M.S. degree in Construction Management from the University of Washington. He attended the Executives Management

Program at Cornell University in 1989.

Mr Al-Sulaim started his career with Saudi Aramco back in 1976. He held several management positions in the areas of Engineering, Inspection, Oil producing, Pipelines, Project Management, Quality Management, Marine, Mechanical Services, training and his current position is The Executive Director of Saudi Aramco's Industrial Services organization.

Mr Al-Sulaim is also the Chairman of the Saudi Quality Council. He chaired two international Quality conferences and is very active in change management.

# PRELIMINARY CONFERENCE PROGRAM

#### **Bahrain International Exhibition Centre**



# **Monday 10 December**

#### 15:00 - 16:30 OFFICIAL OPENING OF EXHIBITION AND CONFERENCE

H.E. Dr Abdul-Hussain Bin Ali Mirza

Minister of Oil & Gas Affairs and Chairman of National Oil & Gas Authority, Kingdom of Bahrain

**WELCOME KEYNOTES** 

Dr Mustafa Alsayed, Chief Executive, BAPCO

Mr Amer Al Sulaim, Executive Director of Industrial Services, Saudi Aramco

# Tuesday 11 December

#### **Session 1 - Managing Pipeline Integrity**

Chair: Warren True, Chief Technology Editor - LNG/Gas Processing, Oil & Gas Journal, USA

09:00 Welcome

Warren True, Chief Technology Editor, LNG/Gas Processing, Oil & Gas Journal, USA

09:10 Inspection of Existing Pipeline Systems Including Upgrade to State-of-the-Art Markus Rieder, ILF Consulting Engineers, Germany

09:50 Identification, Quantification and Defect Assessment Found in NGL Pipelines

Fernando Vicente, Eduardo Risso, ABB Full Service®, Argentina

#### 10:30 Refreshment Break

- 11:10 Total Pipeline Integrity Management System- PETRONAS Gas Berhad's World Class Practices
  Mohd Nazmi bin Mohd Ali Napiah, Mohd Nazir bin Mohd, Nor PETRONAS Gas Berhad, Malaysia
- 11:50 Managing Integrity of PDO Main Oil Lines Challenges Nabeel Ruwaidi, PDO, Oman

#### 12:30 LUNCH HOSTED BY



#### Session 2 - Evaluating Pipeline Integrity

Chair: Dr Konrad Reber, TÜV Rheinland Industrie Service GmbH, Germany

- 14:00 Benchmarking on Pipeline Integrity Management System A PETRONAS Gas Berhad's Experience Mohd Nazmi bin Mohd Ali Napiah, Md Aidi bin Rais, PETRONAS Gas Berhad, Malaysia
- 14:40 Metal Loss Defect Assessment in Heated Pipeline: A RPA-LLC Methodology Case Study E.S.M. Nicoletti, A.G. Souza, Petrobras Transporte S.A., Brazil

#### 15:10 Refreshment Break

15:40 "See through the Earth Technology" for Pipeline Integrity Inspection

Svetlana Kamaeva, Transkor-K, Russia

Paul Jarram, Hitech Engineering Materials and Systems Ltd, UK

16:20 New Multi-Technology In-Line Inspection Tool for the Quantitative Wall Thickness Measurement of Gas Pipelines

A. Barbian, NDT Systems & Services AG

M. Beller, Stutensee, Germany

H. Willems, F. Niese, Fraunhofer Gesellschaft, Germany

17:00 End of Day One



# PRELIMINARY CONFERENCE PROGRAM

# Wednesday 12 December

#### Session 3 - Pipeline Operation Problems

Chair: Dr Michael Beller, Global Marketing Manager, NDT Systems & Services, Germany

09:00 The Hydration Phenomena in the BGT-1 Pipeline

Misfer Al-Otaibi, Saudi Aramco, Saudi Arabia

09:40 Effects of Black Powder on Pipeline Integrity and Operations

Abdelmounam Sherik, Saudi Aramco, Saudi Arabia

#### 10:20

#### **Refreshment Break**

11:00 Application of Integrated Wireless Nano Sensors in Oil Pipeline Integrity Monitoring Bonny B. N. Umeadi, School of Architecture & Construction

Dr K. G. Jones, University of Greenwich, UK

11:40 Forecasting Failure Models for Pipelines through Neutron Diffraction-Based Stress Assessment Tools

Pablo Genta, Saudi Aramco, Saudi Arabia

Massimo Rogante, Rogante Engineering Office, NDT, Italy

#### 12:20 LUNCH HOSTED BY

أرامكو السعودية Saudi Aramco



#### Session 4 - Cleaning and Coating of Pipelines During Rehabilitation

Chair: MuhammadAli Trabulsi, General Manager, Pipelines Dept., Saudi Aramco, Saudi Arabia

13:40 Rehabilitating Large Diameter Gas and Oil Pipelines in a Plant Installation

Igor Alexeevich Kramarenko, Kubangazificatia, Russia Irina Koroleva, Incal Pipeline Rehabilitation, Inc., Germany

14:20 Pipeline Debris, Short Term and Long Term Solutions

Laurence Abney, Halliburton AS, Norway

Allan Browne, Halliburton, UK

#### 15:00

### **Refreshment Break**

15:30 Application of In-Situ Coating for Internal Carbon Steel Pipelines in Saudi Aramco Bakr. S. Hammad, Saudi Aramco, Saudi Arabia

16:10 MAIN OIL LINES (MOLs) COATING REHABILITATION Selection of Coating System to Enhance MOLs Integrity

Ali Mohamed El Kordi, Mahmoud El Al fy, Ibrahim Washash

Abu Dhabi Company for Onshore Oil Operations (ADCO), United Arab Emirates



# PRELIMINARY CONFERENCE PROGRAM

# Thursday 13 December

#### Session 5 - Repairing Pipelines During Rehabilitation

Chair: Bader Al Dossary, Head Corrosion Engineer, BAPCO, Bahrain

09:00 Pipeline Repair Methods and Requirements (Case Study)

Nadhir I. Al-Nasri, Saudi Aramco, Saudi Arabia

- 09:40 Repair Methods of Damaged Steel Pipes Applied in Slovak Transmission Gas Pipeline
  - P. Bernasovsk, Welding Research Institute, Slovakia
  - P. Simko, Slovak Gas Industry, Slovakia

#### 10:20

#### **Refreshment Break**

- 11:00 Use of SmartPlugs to Isolate Operating Pipelines for Construction and Maintenance Activity Mark Sim, TDW Offshore Services AS, Norway
- 11:40 Response for Recovering a 28" Gas Pipeline Damaged due to Debris Flow Ruben Montano, Petrobras, Bolivia

12:20

LUNCH

#### Session 5A - Repairing Pipelines During Rehabilitation (Continued)

- 13:40 Predictive Maintenance through Smart Electrical Valve Actuators
  - Pablo D. Genta, Saudi Aramco, Saudi Arabia
- 14:20 Best Practice in Managing Stress Corrosion Cracking on Gas Pipelines

Jaime P. Perez, Saudi Aramco, Saudi Arabia

#### 15:00

**Refreshment Break** 

#### Session 6 - Rehabilitation Process and Procedures

Chair: Sid Taylor, President, Incal Pipeline Rehabilitation Inc., USA

15:30 The Challenges of Designing and Installing High Pressure Gas Pipelines Through Inshore

David McGlone, BAPCO

Shallow Waters in Bahrain

16:10 Saudi Aramco Rehabilitation Strategy and Construction Best Practices

Abdullah M. Al- Ghamdi, Rami M. Al-Moaikel, Saudi Aramco, Saudi Arabia

- 16:50 Closing Remarks
- 17:00 Close of Conference

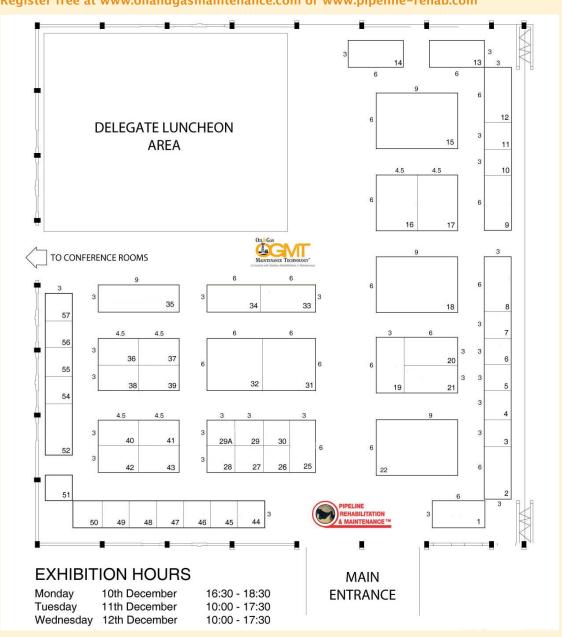
# **EXHIBITION FLOOR PLAN**

# **Exhibitor List\***

Company Name Booth Number	
3X Engineering / Well Flow	47
AFI – Alaa For Industry	1
Albab Trading	2
AMISTCO Separation Products Inc	7
Circle Technical Services	37
Clock Spring Co. L.P	30
Corrocont Ltd	28
Crystal Engineering	32
Furmanite	4
Global Anti Corrosion Techniques	
Company Ltd (GLOBETECH)	38
Grand View Consultants	44
Gulf Strategic Partners W. L. L	52
Hempel Paints Saudi Arabia	25
Incal Pipeline Rehabilitation, Inc	46
Lord & Partners	34
Metacor	42
MQS Mohammed M. Al-Qarni Sons Co	8
NDT Systems & Services AG	19
Okazaki	

O3V Engineering Pte	. 25
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Perry Equipment Corporation	g
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*List correct as at 23 August 2007	

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# 2007 Registration Form 9 - 13 December 2007

**Bahrain International Exhibition Centre** Manama, Kingdom of Bahrain



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For information on corporate packages for more than 20 attendees contact Cary Shipley Phone: + 1 918 832-9220 Email: carys@pennwell.com  3 ways to register: Pre-register online before 4 December 2007. Register on site after 4 December 2007.  1 Fax: Direct: +1 918 831 9161 Toll-Free (US only): +1 888 299 8057	1. Individual Delegincludes:  Access to all Conferer Access to the Exhibition Coffee Breaks in Exhit Delegate Lunch on Tur Paid By 09 Novem Paid After 09 Nove  2. Corporate Plan (Includes: Access to all Conferer Access to the Exhibition Coffee Breaks in Exhit Delegate Lunch on Tur Paid By 09 Novem Paid After 09 Nove Corporate Plan (Gr	nce Sessions on Hall, (Ticketed) bitch Hall esday, Wednesday and other 2007 ember 2007  (Group of 10 Del oce Sessions on Hall, (Ticketed) bittion Hall esday, Wednesday and other 2007 ember 2007 oup of 20 Deleg	Thursday \$1,375 \$1,575 legates)*  Thursday \$10,310 \$11,810	4. • • • • •	Workshivalves a  Exhibit b  Exhibit b  conferen  Access to  Coffee B  Delegate  Paid  Paid  Exhibit  Exhibit	Workshop (Workshops C) top C - Reliability & Maintenan and Actuators - 1 day: 9th Dec tor/Delegate (Full Confet top and includes: top all Conference Sessions to the Exhibition Hall, including mot treaks in Exhibition Hall te Lunch on Tuesday, Wednesday and tid By 09 November 2007 \$1,375 tid After 09 November 2007 \$1,575 tt Floor Only (Dec 10 - 12)  AYMENT AMOUNT	rence retroited to the composition of the compositi	Registra include ac d move-out	ccess to the
Website: www.oilandgasmaintenance.com www.pipeline-rehab.com  3 Mail: PennWell C&E Registration (OGMT/PIPE) P.O. Box 973059 Dallas, TX 75397-3059 USA  For questions please call: Phone: +1 918 831 9160 Toll Free (US only): +1 888 299 8016	Paid By 09 Novem Paid After 09 Novem  3. Pipeline Rehabil Access to pre-booked Luncheon on correspo  Two Day Workshop Workshop A - Introv 2 days 9th & 10th Workshop B - An U 2 days 9th & 10th	ember 2007  itation Workshop Workshop on the comording day(s) (Ticketer (Workshops A eduction to In-line In December Ipdated Look at Pip	esponding day(s) d) <b>&amp; B) \$1,225</b> spection of Pipelines –	(in Payi the unti Reh writti 9 N Nov any	ment mus conference proof of ab 2006. ng. Any in ovember 2 ember, 2C time by cour full-pr		e guarai payable stration gistratior registrat Substitut writing.	nteed on cl to PennWe must be rea ns cancelled tion fee. Aft tions may b	harge card ell/Pipeline ceived in d before ter 9
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