

Africa / Middle East Oil and Gas Flow Assurance Summit 2008

Cairo – Egypt

Address the Challenges, Identify the Solutions,
Go With the Flow

BOOK EARLY
& SAVE
USD 1,995
if you register before
23 April 2008!

Conference 27th and 28th May 2008 • Nile Hilton Hotel Cairo – Egypt

“The Oil and Gas industry needs to integrate information models in a life-cycle perspective to make a step change in efficiency and quality control.”

...compared to this, anything less will have a marginal effect!

Det Norske Veritas (DNV)

Africa / Middle East Oil and Gas Flow Assurance Summit 2008

“Flow Assurance can certainly drive your architecture and it can drive feasibility, if you don't have flow assurance you are risking too much. After all if it doesn't flow, it doesn't do you any good to have a good well.”

Richard Cain

Senior Project Manager

Anadarko Oil Corporation
U.S.A

Distinguished Personalities and Renowned Industry Speakers Including

Dr. Alberto Di Lullo

Flow Assurance Technologies Program Manager Eni E&P Division,
Plant and Construction Technologies, *Eni – Italy*

Dr. Bahman Tohidi,

Director, Centre for Gas Hydrate Research, Institute of Petroleum Engineering, Heriot-Watt University, – *Edinburgh – Scotland*

Mr. Inge Manfred Carlsen

Director, SINTEF Petroleum Research Production Technology, – *Norway*

Dr Ahmed Gawish

Petroleum and Natural Gas Engineering Dept,
King Saud University, - *Saudi Arabia*

Erik J. Holm, PhD

Senior consultant, Multiphase Flow Assurance Innovation Centre
- *Norway*

Mr. Phillip Nidd,

Director, Pipeline Integrity and Special Projects,
Aptech Engineering, - *Houston – Texas*

Mr Laurence Abney

Product Manager, Halliburton, - *Norway*

Mr. Tor Bjornstad

Manager and Head, Reservoir and Exploration Technology,
Institute for Energy Technology (IFE), - *Norway*

Mr Antonio Ojeda

Head of Production Facilities, Production Operation Department,
Nigeria Agip Oil Company, - *Nigeria*

Mr. Saeid Mokhatab

Process Technology Manager,
Tehran Raymand Consulting Engineers, Tehran, – *Iran*

Featuring a 1 Day Pre-Conference Masterclass on The
26th of May 2008 (Time: 8.30am - 17.00pm)

Topic - Practical Aspects Of Pipeline and Flow
Assurance Integrity Management

Course Instructor : **Mr. Phillip Nidd**

Director of Pipeline Integrity and Special Projects
for APTECH
Aptech Texas Engineering Houston – Texas, USA

Best practices and case study presentations by leading companies and organizations including

- Egyptian Liquefied Natural Gas, – Egypt
- Eni, – Italy
- Agip, – Nigerai
- SPT Group -Dubai
- Institute for Energy Technology (IFE), – Norway
- SINTEF Petroleum Research, – Norway
- Schlumberger, – Cairo Egypt
- Halliburton, – Norway
- Multiphase Flow Assurance Innovation Centre – Norway
- Tehran Raymand Consulting Engineers, – Iran
- Centre for Gas Hydrate Research, Institute of Petroleum Engineering, Heriot-Watt University, – Edinburgh – Scotland
- HYDRAFACT Ltd (Hydrate and Flow Assurance Consulting Technologies) Edinburgh, – Scotland
- Petroleum and Natural Gas Engineering Dept, King Saud University, – Saudi Arabia
- Aptech Engineering, – Houston, – Texas
- Tradewinds Petrotrade, – Houston, – Texas

The Following Key Themes Will be Addressed In Depth

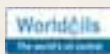
- Ensuring flow and production – Challenges met, Challenges remaining
- Production chemistry / engineering, flow assurance and operability issues
- Flow assurance problem analysis to screen the best technology solutions.
- High Temperature and High Pressure (HT/HP)
- Solving gas hydrate problems in subsea pipelines
- Pipelines, Technology, Laying and Operation (Onshore and Offshore)
- Integrity Management
- Shutdown and restart strategy options
- Flow Assurance concerns and problems – Technical solutions and limitations
- System component failures / faulty operational procedures / operators failures
- Production and flow assurance recommendations
- Offshore field development – challenges and opportunities
- Developing and operating oil fields in harsh and remote environments
- Deepwater production and long distance sub-sea flow lines
- Subsea development and architecture – project challenges & risks

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AFRICA / MIDDLE EAST OIL AND GAS FLOW ASSURANCE SUMMIT 2008

Pipeline Flow Assurance in the oil and gas industry is an increasingly important issue, with global applications for both onshore and offshore pipeline operators. Gas Hydrate problems, Black Powder issues, Security and Product Theft, Control Of Pipeline Deposits are challenges faced by all pipeline operators, that if not controlled, can significantly affect product throughput efficiencies and reduce investment rate of returns.

Today's advancement into deepwater is placing an even greater emphasis on assuring flow in challenging environments as consistent and efficient product delivery is fundamental to the development of deepwater oil and gas discoveries, which have to contend with pressures and temperatures in the ultra deepwater environment.

High pressure and high temperature (HP/HT) pose the unique challenge for flow assurance and engineers on how to design and operate the system to provide relief from high temperatures in early life, or at high rates while ensuring operability and flow via heat retention in later life or at low rates.

Additional issues such as complex fluids (heavy oils), deep waters, cold environment (cold flow), subsea processing and long distance transport of unprocessed well stream fluids in subsea pipelines, has made product flow assurance a critical concern for oil and gas development and ultra deepwater activity. Overcoming such challenges is vital to ensuring the continuous and consistent product flow required from the reservoir to the processing offshore platform or onshore facility.

As a response to these challenges, UNI presents the Africa / Middle East Oil and Gas Flow Assurance Summit 2008 in Cairo Egypt, a carefully researched and organized event that will provide a platform to discuss and address the many flow assurance challenges, issues and operability on current offshore and onshore projects. Explore the latest technology applications, gain the latest business intelligence, address the challenges and identify solutions that will enable your company to maximize production and recovery while managing investments and operating expenses.

CONFERENCE DAY ONE – 27th MAY 2008

8.30 Registration

9.00 Chairman's Opening Address

9.15 **Assessing the Egyptian LNG, Major Issues and Lessons Learnt**

Mr. Ahmed Shehata
Operations Director
Egyptian Liquefied Natural Gas
Cairo – Egypt

9.45 **Flow Assurance diagnosis – Steady-state techniques**

- Needs for pipeline monitoring: obstruction risks, pressure bottle necks, integrity-driven activities
- Opportunities for pipeline monitoring: from corrective maintenance to control
- Steady state monitoring
- The troubles of Flow Assurance diagnosis: "it's too late" and "one symptom, many causes"
- Deviations from a reference: support from multiphase simulators
- The effect of deposits configuration: bottom vs. annular
- Field examples of steady state monitoring: gas sealines and multiphase desert lines
- Multiphase simulators: Steady-state vs. Transient types
- Realtime simulation: facts and slogans
- The good and bad loops of realtime simulation: tuning vs. emulation vs. measurement
- An approach to realtime simulation: better science in the field

Dr. Alberto Di Lullo
Flow Assurance Technologies Program Manager
Eni E&P Division
Plant and Construction Technologies
Eni – Italy

10.30 **Flow assurance issues connected to mineral scaling, hydrates, complex fluids and use of tracers.**

- Near-well and well mineral scaling and new methods to study kinetics for modelling purposes
- Problems associated with the use of MEG for hydrate prevention
- Modelling of complex fluids containing hydrate slurries and emulsions in transportation pipelines
- Use of tracer technology to study accumulation of condensed fluids in transport of wet gas in pipelines

Tor Bjornstad
Manager and Head
Reservoir and Exploration Technology,
Institute for Energy Technology (IFE),
Norway

11.15 Morning Refreshment

11.45 **Online production management system for offshore-to-onshore multiphase pipelines. (Advanced decision making system for operators)**

- Overview of edpm technology
- Case Study – Dolphin Processing Facilities
 - Overview of field.
 - Main Production Challenges
 - Objectives of edpm
 - Benefits achieved after adapting edpm technology

Vishwajit Upadhye
Senior Sales Engineer,
SPT Group FZ LLC.

Abhinav Goel,
Principle Consultant edpm / OLGA,
SPT Group FZ LLC

12.30 **Assuring sustained field integrity - examples from Offshore Norway**

- Following main issues will be discussed;
- Field development trends
- Mature fields and IOR opportunities
- Well integrity mapping and analysis
- Novel flow assurance technologies
- Subsea leak detection
- Economical impact

Inge Manfred Carlsen
Director
SINTEF Petroleum Research
Production Technology
Norway

13.15 Networking Lunch

14.30 **Novel Techniques in Addressing Gas Hydrates and Flow Assurance - Cold Flow/Hydraflow**

- Conventional approach in tackling gas hydrate problems
- Limitations of conventional approaches
- What is cold flow and Hydraflow?
- How Hydraflow can eliminate gas hydrate problems
- Other benefits of Hydraflow in minimising other Flow Assurance issues, i.e., slugging, wax, corrosion, scale, ...
- Latest development

Dr. Bahman Tohidi,
Director, Centre for Gas Hydrate Research,
Institute of Petroleum Engineering,
Heriot-Watt University –
Edinburgh – Scotland

15.15 **Dynamic Interactions Between Risers and Offshore Processing Facilities**

- Interaction between multiphase flow risers and offshore processing plants.
- Quantifying and better understanding the characteristics of severe slugging both theoretically and experimentally.
- New developed model of the offshore production rig, which will be used as a basis to study dynamic interactions

Universal Network Intelligence (UNI Strategic) is the regional leader in providing strategic business intelligence through all our premium events in Pacific, Africa, Middle East, Asia; Singapore, Hong Kong, Beijing, Kuala Lumpur, Jakarta, Bangkok, Seoul, Dubai, Egypt, Johannesburg and Qatar.

UNI's commitment to present events of absolutely the highest calibre, in addition to providing unsurpassed client service, is the basis for our exceptional regional reputation. Our events continually draw participation from majority of the region's Fortune 500 companies.

- between the riser and downstream receiving facilities in the offshore production units.
- Details comparing the results of the model predictions with some experimental data, discussing finding and proposing future avenues for further work.

Mr. Saeid Mokhtab

Process Technology Manager
Tehran Raymand Consulting Engineers
Tehran – Iran

16.00 *Afternoon Refreshments*

16.30 **Understanding the behaviour of emulsions, suspensions and viscous oil**

KEYNOTE

- Characterization of crude oil samples
- Designing model fluids mimicking real fluids
- Performing dedicated experiments with those fluids
- Establishing mathematical models on different length scales based on the experiments

Erik J. Holm, PhD

Senior consultant,
Multiphase Flow Assurance Innovation Centre-
Norway

17.15 *End of Conference Day One*

CONFERENCE DAY TWO – 28th MAY 2008

8.30 *Registration*

9.00 *Chairman's Opening Address*

9.15 **A New Concept of Polymer to Prevent Sand production**

KEYNOTE

- Nature of Sand Production
- Effects of Sand Production
- Causes of Sand Production
- Prediction of Sand Production
- Methodologies for Controlling Produced Sand
- New Concept

Dr Ahmed Gawish

Assistant Professor
Petroleum and Natural Gas Engineering Dept King Saud University
Saudi Arabia

9.45 **Integrity Management of production facilities and pipeline network. (Nigeria Case Study)**

Case Study

- Integrity Assessment of Production Facilities
- Corrosion Risk Assessment of Production Facilities Exposed to Production Fluids (Internal Corrosion) and Surrounding Environment (External Corrosion)
- Evaluation and Quantification of Corrosion Status
- Risk Based Inspection Program and Corrosion Control Methods
- Corrosion Mitigation Through Chemical Injection Program

Mr Antonio Ojeda

Head of Production Facilities,
Production Operation Department, Nigeria Agip Oil Company
Nigeria

10.30 **Control of Black Dust – A Case Study**

Case Study
Keynote Speaker

(Case Study covers two large diameter pipelines located in the Middle East)

Mr. Phillip Nidd,

Director,
Pipeline Integrity and Special Projects
Aptech Engineering,
Houston – Texas

11.15 *Morning Refreshment*

11.45 **Hydrate Monitoring and Early Warning Systems**

KEYNOTE

- Current techniques in hydrate monitoring
- The benefits of monitoring hydrate safety margin and detecting early signs of hydrate formation
- The basic principles of hydrate monitoring and early warning systems
- How combination of hydrate monitoring and early warning can result in robust flow assurance strategy
- Latest development with respect to prototype and industrial scale production and application

Mr. Ross Anderson,

Senior Consultant, HYDRAFACT Ltd (Hydrate and Flow Assurance Consulting Technologies)
Edinburgh – Scotland

12.30 **An Integrated Approach to Flow Assurance Problems**

KEYNOTE

- Types of Pipeline Debris
- Debris Transportation in Fluids
- Slurry Behaviour
- Data Requirements
- Debris Removal Measures for Pipelines
- Conclusions

Mr Laurence Abney

Product Manager
Halliburton
Norway

13.15 *Networking Lunch*

14.30 **Flow Assurance diagnosis – Transient based techniques**

- Drawbacks of steady-state monitoring
- Alternatives to steady-state monitoring: noise and transients
- The ideas behind transient based monitoring
- Field examples of Transient-Based inner inspection
- The myth of "Field is different from theory"
- Data driven vs. information driven systems

Dr. Alberto Di Lullo

Flow Assurance Technologies Program Manager
Eni E&P Division
Plant and Construction Technologies
Eni – Italy

15.15 **Ensuring Flow Through Optimized Down hole Fluid Analysis and Sampling**

KEYNOTE

Mr. Sameer Joshi

Principal Reservoir Engineer
Schlumberger,
Cairo – Egypt

16.00 *Afternoon Refreshments*

16.30 **Technical Advances in Pipeline Monitoring and Security**

Mr. Joshua Scott,
Vice President - Operations / Business Development
Tradewinds PetroTrade, LLC
Houston – Texas

17.15 *End of Conference*

Who Will Attend This Event ?

Process and facilities engineers ❖ Lead reservoir and petroleum engineers ❖ Production managers / engineers and technologists ❖ Flow assurance engineers ❖ Pipeline engineers and managers ❖ Project managers ❖ Offshore / subsea engineers ❖ Technicians ❖ Government regulators ❖ Policy makers / Planners / Supervisors ❖ CEO's ❖ and Managing Directors ❖ Managers ❖ Offshore/onshore project developers / financiers ❖ Chief technology officers ❖ Head of production / plant/equipment / engineering ❖ Field / well engineers ❖ Reservoir head/manager ❖ Head of business development ❖ Head of research and development ❖ Logistics head and other senior executives from oil and gas industry within the regions and beyond.

From These Industries

- Offshore oil and gas companies
- Onshore oil and gas companies
- Refineries
- Oil and Gas Government Authorities/Regulators
- Government Ministries involved in oil and gas processes
- Project Developers
- Banks and financial institutions
- Finance and venture capital

The Masterclass will study the practical aspects of pipeline integrity assessment and pipeline integrity management as relates to Flow Assurance requirements.

For decades, the oil and gas industry has been faced with problems associated with moving liquids and gases through long pipelines and flowlines.

A review of the current state of oil and gas pipelines gives insight into the current integrity management concerns. Many oil and gas pipelines are at, or nearing the end of their design life, and this is reinforced by capacity problem as most of these pipelines are now operating far above their designed capacity because of the surging energy demand worldwide which has raised great concern among operators and regulators in the oil and gas industry.

Furthermore, as oil and producers are forced to optimize profitability by developing more technically challenging reservoirs, whether in exploration frontiers or mature petroleum provinces and advancement into deepwater, new reserves being discovered tend to be smaller and located under more remote, severe and challenging environments. Under these circumstances, the key issue is to guarantee the continuous flow from the reservoir to the processing offshore platform or onshore facility.

Thus, great emphasis is placed on pipeline integrity and assuring flow in these challenging environments/locations/moments as a pre-requisite for successful and profitable operation.

Topics to be addressed include the following:

Topic 1 Pipeline Time Dependent Failure Mechanisms

- ❖ Material and manufacture
- ❖ Construction issues
- ❖ Corrosion / External and Internal
- ❖ Construction dents and mechanical damage
- ❖ Cracks and related defects

Topic 2 Forces Of Nature / Third Party Damage Failure Mechanisms

- ❖ Slope instability and soil movement
- ❖ River crossings
- ❖ Urban encroachment
- ❖ Impact dents and mechanical damage
- ❖ Volcanoes, earthquakes, flooding

Topic3 Mitigation/ Assessment/ Rehabilitation

- ❖ Cathodic protection and pipeline coatings
- ❖ Depth of cover surveys
- ❖ Pipe coating integrity surveys
- ❖ Leak detection and SCADA / Pipeline leak surveys
- ❖ Hydrostatic Testing
- ❖ Direct assessment approaches
- ❖ In line inspection surveys
- ❖ Use of inhibitors
- ❖ Engineering critical assessment
- ❖ Rehabilitation and replacement programs

Topic 4 Pipeline Integrity Management And Security Plan Development

- ❖ Pipeline segment risk priority
- ❖ Baseline assessment
- ❖ Analysis of integrated information
- ❖ Required procedures/ Pipeline repair criteria
- ❖ Continuing assessment and analysis
- ❖ Document controls
- ❖ Preventative and mitigative measurements
- ❖ Measuring program effectiveness
- ❖ Importance of pipeline security
- ❖ Security gap analysis
- ❖ Right of way monitoring



Mr. Phillip Nidd

Director of Pipeline Integrity and Special Projects for APTECH
Aptech Texas Engineering Houston – Texas, USA

Mr. Phillip Nidd is the **Director for Pipeline Integrity and Special Projects for APTECH**, an internationally recognized engineering services consulting firm specializing in the design, installation, operation and maintenance of oil and gas transmission and distribution facilities with **over 6000 projects for over 1000 clients successfully completed** spanning international borders, onshore and offshore facilities, including design controls for avoiding catastrophic fracture, failure analysis and incident investigation, mechanical integrity assessments, process safety assessments and risk management for existing infrastructure and new builds.

A 30 years veteran of technical experience in the pipeline integrity business, Phillip has served both as an operating pipeline company Pipeline Integrity Manager and as an independent consultant in matters of Asset Integrity. As Director of Pipeline Integrity and Special Projects in APTECH, he is responsible for providing litigation project technical support along with management expertise on large-scale pipeline integrity assessments and rehabilitation projects in addition to leading several APTECH initiatives, including the development of an electronic document system that serves to provide a low cost, secure storage and access database process to manage excessive volumes of data relating to engineering projects.

He has performed project consulting in Russia, Ecuador, Argentina, USA and Canada and his partial clientele list which he has provided asset integrity management services and / or rehabilitation project management services to include.....

- Esso Resources
- Shell
- Texaco
- ASSOCOR Group of Russia
- Oldeval – Argentina
- Oleoducto De Crudos Pesados (OCP Ecuador)
- Olympic Pipeline Company/BP
- Refineria de Petroleos de Manguinhos S.A
- Nova Corporation
- EnCana

As an independent consultant, he has acted as a pipeline consultant on the following selected major projects:

- EnCana- 20" Alberta Oil Sands Pipeline Rehabilitation program (Canada) – 2004
- EnCana- 20" Platte pipeline rehabilitation program (USA) – 1991 – 1996
- BP – Olympic pipeline rehabilitation program – (USA)2001 – 2004
- Oleoducto De Crudos Pesados (OCP Ecuador) – Construction quality assessment program – (2002 – 2003)
- OCP – Pipeline failure litigation defense expert (USA) – 2006
- OCP – Pipeline life expectancy study – (Ecuador) – 2006

Mr. Nidd has published several articles and presentations relating to Pipeline Integrity matters, **the most recent being "Litigation Consequences of Pipeline Integrity Management Choices", Pipeline Oil and Gas Journal, June 2007**. He is a member of National Association of Corrosion Engineers (NACE), American Society for Metals (ASM) and the American Society of Certified Engineering Technicians (ASCET).

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Signatory must be authorised to sign on behalf of contracting organisation.

Name: _____

Position: _____

Signature: _____ Date: ____/____/____

This booking is invalid without a signature.

Venue and Date

Nile Hilton Hotel, Cairo - Egypt

Masterclass: 26th May, 2008

Conference: 27th & 28th May, 2008

Conference Fee

- USD 1,995 per delegate (For early booking and payment by 27th March to 23rd April 2008)
- USD 2,395 per delegate
- USD 695 for Masterclass only
- USD1,795 Priority Booking (Until 26th March 2008)

For Group bookings of 3 or more from the same organisation

**The above payment is net of withholding taxes or any other taxes if any.

Registration and Enquiries

UNI Strategic (Malaysia) Sdn Bhd

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Hotel Accommodation

Accommodation is not included in the conference fee. To make a reservation for accommodation at the conference venue, please contact the respective hotel.

Nile Hilton Hotel, Cairo - Egypt

1113 Corniche El Nil, Cairo Egypt, 12344

Tel: +20 - 22 - 5780444/ 5780 666

Fax: +20 - 22 - 5780475

Event Code: **SGC 176**

Cancellations/Substitutions

If you are unable to attend, a substitute delegate is always welcome at no additional charge. All bookings carry a 50% liability immediately after a fully completed sales contract has been received by the UNI office. Please note that a written notice of the cancellation must be received via mail or fax 3 weeks prior to the event date in order to obtain the balance of the event fee as a credit to be applied against another UNI conference, summit or training course. All fees are inclusive of an 18% service charge, which is completely non-refundable and non-creditable. Cancellation of any event with less than 3 weeks notice prior to the event date carry a 100% liability, however the delegate will still be entitled to a complete set of course documentation. Payment must be made within 5 working days upon registration and in agreement, UNI will not be able to mitigate its losses for less than 50% of the contract value in case of dispute with the client or cancellation of this contract by any one party. UNI reserves the right to cancel or make any other changes to the content and timing of the events or speakers for reasons beyond its control. If for any reason UNI decide to amend these conferences, summits or training courses, UNI is not responsible for covering airfare, hotel or other costs incurred by registrants. In the event that UNI cancel the event, UNI reserves the right to transfer this booking to another event or to provide a credit of an equivalent amount to another event to be held within the following twelve months.

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