

2ND ANNUAL INTERNATIONAL PIPELINE COATING CONFERENCE 2015

LATEST INNOVATIONS AND TRENDS IN PIPELINES
AND COATING TECHNOLOGY

22-23 APRIL 2015, UAE



KEYNOTE SPEAKER:

Dr. Kareem Waheed Hasan

*H.E. Former Minister of Electricity & Former Acting Minister of Oil
Republic of Iraq*

INDUSTRY EXPERTS FROM OIL COMPANIES INCLUDING:



Natiq Khalaf
Deputy Director General
State Company for Oil
Projects (SCOP)



Mohamed Daoud
Projects Quality
Management - Projects
Quality Management
ADCO



Ali N Moosavi
Chief Engineer
(Corrosion) - Technical
Centre (Integrity &
Operations)
ADCO



Fadi Zahreddine
Construction Manager,
Pipe Coating Yard
NPCC



Hesham Ahmed Elashkar
Senior Corrosion &
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WELCOME NOTE

Dear Colleagues,

After a successful inaugural event in 2014 which attracted 200 attendees from over 22 countries and 70 companies over the course of two days in Abu Dhabi, UAE, it gives me great pleasure to announce the 2nd International Pipeline Coating Conference (IPCC 2015).

As pipeline coating continues to gain momentum with projects, it is essential for leading energy companies to embrace new approaches. International Pipe Line Coating Conference (IPCC 2015) will offer opportunities for you to engage in fruitful dialogue about new technological inventions in order to select the best possible systems for pipeline coating.

With the Middle East holding most of the world's oil reserves, Coated Pipelines are inevitably one of the major investments in the region.

This two day conference, the only event of its kind in the region, will provide unparalleled networking opportunities for the pipeline coating industry as well as informative technical presentations, panel discussions and project updates on the latest trends and opportunities in pipeline coating and technology.

I look forward to welcoming you and your colleagues to this highly valuable conference.

Yours Sincerely,
Hannah Capstick
Event Director

EVENT DIRECTOR:



Hannah Capstick
IPCC

TECHNICAL COMMITTEE:



Dr. Ali Moosavi
ADCO



Auda Al Moman
NPCC



Ahmed Elashkar
TAKREER



Munzir Ahmad Khan
ZADCO

PARTICIPANT:

KEYNOTE SPEAKER:



Dr. Kareem Waheed Hasan
H.E. Former Minister of Electricity & Former Acting Minister of Oil
Republic of Iraq

INDUSTRY EXPERTS:



Dr. Ali Moosavi
Chief Engineer (Corrosion) -
Technical Centre (Integrity &
Operations)
ADCO



Natiq Khalaf
Deputy Director General
SCOP, Ministry of Oil, Iraq



Dr. Volker Boerschel
Global R&D Manager -
Functional
Powder Coatings
AkzoNobel



Jamal Faleh Hassan
Head of Design
SCOP, Ministry of Oil, Iraq



Richard Cowl
Concept Manager
- Pipeline Coatings
Jotun



Fadi Zahreddine
Construction Manager - Pipe
Coating Yard
NPCC



Marcel de Haan
Product Champion for Pipe
Coatings
PPG



Chanchal Dasgupta
Application Marketing
Manager (Pipe)
Borouge



Richard Schertzer
Market Development
Manager - General Industrial
Valspar



Pascal Collet
Marketing & Business
Development Director
BS Coatings



Norbert Jansen
Application Marketing
Manager
Borealis AG



Jawad Hasan
Head of Mechanical
Department/ Design
Establishment
SCOP, Ministry of Oil,
Iraq



Melvin Devadass
Technical Manager -
Global Support
3M Infrastructure
Protection Division



Kabeer Khader
Chairman & Managing
Director
Euroblast Middle East
LLC



Jim Dymock
IFL Division Manager
Anticorrosion
Protective Systems



Jeroen Keswiel
Commercial Manager
Abrasives
Sibelco



Andrew Coverdale
Managing Director
CoverCat Pipeline
Engineering Limited



Jarrod Shugg
Global Marketing
Manager
Canusa-CPs



Henk De Graaf
Sales Director (Onshore
East),
CRC-Evans B.V.



Ghassan Ashqar
Senior VP Business
Development
SNC Lavalin



Dr. Ali Hussain
Independent Oil
Consultant



Balraj Velu
National Petroleum
Construction Company

DAY ONE: WEDNESDAY 22 APRIL 2015

09:00 Registration and Coffee

09:55 **Opening and welcome by Conference Director**

10:00 **Keynote Address: The Importance of Transport Pipeline Projects**

Dr. Kareem Waheed Hasan, *H.E. Former Minister of Electricity & Former Acting Minister of Oil, Republic of Iraq*

10:10 Session Opening by Conference Chairman

Dr. Ali Moosavi, *Chief Corrosion Engineer, ADCO*

SESSION 1: EXTERNAL COATING

10:15 **New Developments in Dual Layer High-Tg FBE Epoxy Powder Technologies for Pipe Coating**

Fusion-Bonded Epoxy (FBE) and three-layer polyolefin coatings have established themselves as the dominant coating systems for oil and gas pipelines worldwide. However, both systems have drawbacks, especially at high operating temperature which limit their complete success. An attractive solution to these drawbacks is the use of a Dual Layer High-Tg FBE coating system. This paper presents new developments in Dual Layer Hybrid FBE's and Dual Layer High-Tg FBE's. These coatings demonstrate excellent adhesion, mechanical performance and good CD-test-results at temperatures above 100° C as well as good autoclave tests at 120° C.

Dr. Volker Boerschel, *Global R&D Manager-Functional Powder Coating, AkzoNobel*

10:45 **New Pipeline Coating Technologies, Their Advantages and Drawbacks**

From the 1970's basic thermoplastic sheaths and coating lacquers, to today's sophisticated systems using increasingly complex chemistries, there have been significant developments to improve the performance of pipeline protection coatings. However, around ten years ago doubts were cast on the ability of these coating systems to protect the pipeline for the expected lifetime of the line.

In many cases the same techniques are being used as in the past to determine fit for purpose even though doubts exist on their validity.

This presentation will discuss new pipeline coating technologies, their advantages and drawbacks, project requirements and expectations, and the need to apply science to observation and testing.

Richard Cowl, *Concept Manager-Pipeline Coatings, Jotun*

11:15 Morning Refreshment and Networking Break

11:45 **Case Study: Single Layer High-Tg FBE Coating; Porosity and Failure Related to Bare Pipe Surface Conditions**

Fusion Bonded Epoxy (FBE) has a long history as an anticorrosion coating with the probability of extraordinary coating damage. The main reason behind the damages are low thickness compared to 3 LPO and low impact resistance. This paper describes the experience of National Petroleum Construction Company (NPCC) in coating 16"-20"seamless pipes with contaminated surface (varnish), having slivers causing damages and failure to the coating and applying high Tg FBE single layer coating and solutions and recommendations.

Fadi Zahreddine, *Construction Manager, Pipe Coating Yard, National Pipeline Construction Company(NPCC)*

12:15 **State-of-the-Art, Amine-Cured Novolac Phenolic Epoxy Products**

Transmission pipelines in highly aggressive Sabkha environments are a well-known protection challenge resulting from their exposure to corrosive salts, abrasive sandstorms and cyclic climatic conditions. Consequently, pipeline protection solutions are rigorously tested for their chemical, abrasion, and temperature resistance. State-of-the-art, amine-cured novolac phenolic epoxy products have

proven themselves in a wide range of similar conditions. They offer a wide range of performance advantages that seem tailor made for the challenges presented in Sabkha environments.

Marcel de Haan, *Product Champion for Pipe Coatings, PPG*

12:45 **Cathodic Disbandment Testing the Reality**

Cathodic disbondment testing of coatings are being carried out by around 22 standards all over the world. Among these few representative standards which are mostly used by the middle east oil and gas operators are selected to analyze the requirements of each standard. The various factors for this testing analyzed based on the criticality of the factors which influence this phenomenon. There are few critical and major factors have not been considered by various test methods. Those factors have been analyzed to determine the various standards long term testing and practical implications in the projects. An attempt has been made to determine a mathematical relationship by which the cathodic disbondment size can be determined for any period. Hence, the long term testing duration can be reasonably minimized in turn the project duration.

Balraj Velu, *Lead Engineer - Materials & Corrosion, National Petroleum Construction Company*

13:15 Networking Lunch

SESSION 2: FIELD JOINT COATING

14:30 **High Performance Field-Friendly Coating System for High Temperature FBE Coated Pipelines**

This presentation will showcase a high performance liquid coating and semi-automated application methodology built to ensure efficient and reliable installations in a field environment, while at the same time providing equivalent anticorrosion integrity as the mainline coating. This case study will highlight the speed, consistency and repeatable quality that is achievable at the field joint area when applied by automation. Specific reference will be made to a recent regional project where this field joint coating system was executed with ease by trained contractors.

Jarrod Shugg, *Global Marketing Manager, Canusa*

15:00 **Fast Set Polyurethane – An Effective Alternative to Traditional Field Joint Coatings**

This presentation discusses the application and performance benefits of fast setting, 100% solids polyurethane used as a field joint coating in oil and natural gas pipeline applications where moderate services temperatures are anticipated, i.e. below 90°C (194°F). It will focus on excellent performance with 3-LPE and FBE mainline coatings and will present these benefits against a backdrop of 'traditional' joint technologies including FBE, Liquid Epoxy and Heat Shrink Sleeves (HSS), which to varying degrees all have application limitations when compared to polyurethane. Finally, the presentation documents a recent case study on a large Middle East 3-LPE oil pipeline installation where polyurethane delivered excellent performance and a high daily production rate under installation temperature extremes.

Richard Schertzer, *Market Development Manager - General Industrial, Valspar*

15:30 Afternoon Refreshment and Networking Break

16:00 **Reproducible FJ Quality from Joint to Joint – Using Wehocoat**

- Onshore machine design for field joints and tailored PE+PP system performance
- Offshore machine design and functionality for 3LPO coatings

Norbert Jansen, *Application Marketing Manager, Borealis AG*

16:30 Chairman's Closing Remarks and End of Day One

DAY TWO: THURSDAY 23 APRIL 2015

- 08:30 Registration and Coffee
09:25 Opening and Welcome by Conference Chairman
Dr. Ali Hussain, *Independent Oil Consultant*

SESSION 3: IRAQ PIPELINE EXPORT PROJECT

- 09:30 **This Session will Focus on Iraq's Ministry of Oil's Latest Pipeline Project Including the Development of Basrah Aqaba 1,680 Km Pipeline**
Moderator
H.E Dr. Kareem Waheed Hasan, *Former Minister of Electricity & Former Acting Minister of Oil, Republic of Iraq*
Dr. Ali Hussain, *Independent Oil Consultant*
Ghassan Ashqar, *Senior VP Business Development, SNC Lavalin*
Panelists
Natiq Khalaf, *Deputy Director General, SCOP, Ministry of Oil, Iraq*
Jamal Faleh Hassan, *Head of Design, SCOP, Ministry of Oil, Iraq*
Jawad Hassan, *Head of Mechanical Department, SCOP, Ministry of Oil, Iraq*
- 10:10 **Alignment of Construction Stages to Field Joint Coating Operations**
As field joint coating systems nowadays are becoming more efficient and higher on productivity, it occurs that construction stages prior to coating can bring limitation to utilize full coating capacity. On large pipeline projects as the forecasted 680km 56" and 1000km 42" pipelines in Iraq the economical aspect of construction efficiency have a major cost impact. This presentation will focus on efficiency improvement of construction stages. Comparing conventional and high production processes with the capability to align production capacity of construction to high productive of modern field joint coating systems.
Henk De Graaf, *Sales Director (Onshore East), CRC-Evans B.V*
- 10:30 Morning Refreshment and Networking Break

SESSION 4: FLOW COATING & ANTI-CORROSION TECHNOLOGIES

- 11:00 **Corrosion Management with CP Compatible Coatings for Pipelines**
Coatings in combination with cathodic protection provide an effective and economical corrosion control system, the success of this system depends on the coating's ability to operate in synergy with the cathodic protection. The traditional three layer polyolefin coatings have been a choice for construction and installation of pipelines as a result of increased damage resistant performance when compared to single layer fusion bonded epoxy. This coating can be an obstacle in the performance of the corrosion control system when it is suspected of causing cathodic shielding or limiting the effectiveness of cathodic currents. While, cathodic shielding is not associated with FBE coatings.
Melvin Devadass, *Technical Manager - Global Support, 3M Infrastructure Protection Division*
- 11:30 **Benefits of Internal Flow Coatings**
Gas transmission is predominant managed by pipelines and the LNG transport chain combined with the shipment of liquefied gas by dedicated vessels. In light of continuously increasing worldwide gas demand, new routes are being envisaged and several new gas transmission pipelines are planned or under construction, such as South Stream, The Southern corridor pipelines.
For over 50 years, internal linings of gas pipelines - known as internal flow coatings - have been used to counter adverse effects on pipeline capacity, operation and pumping costs caused by the rough internal surface of steel pipes and the consequent build-up of deposits and corrosion products. Liquid epoxy coating materials have been at the forefront of flow coating technology and are now widely recognized as a highly efficient solution, even if it is not today specified by the Oil & Gas companies in the UAE.
Pascal Collet, *Marketing & Business Development Director, BS Coatings*

- 12:00 **A Novel Approach to the Rehabilitation of Sub-Sea Hydrocarbon Pipelines Using High Performance Solef PVDF Flexible Kevlar Reinforced Liners**
Many pipelines run from platform to platform and platform to onshore facilities over distances of between several hundred meters to several kilometers, in varying water depths. Internal corrosion, due in large part to sulfate reducing bacteria (SRB) has historically caused aging pipelines to have a relatively short life, resulting in regular and expensive replacement cycles, requiring the deployment of significant lay-barge and marine spreads. In an effort to reduce long term expenditure, PCSB have developed a reinforced high-performance liner system which can be easily and rapidly deployed platform to platform within their sub-sea pipelines in-situ providing a viable corrosion resistant & rehabilitation system without the need for conventional lay barges.
Jim Dymock, *IFL Division Manager, Anticorrosion Protective Systems*

- 12:30 **3LPE Coating System for Large Diameter Water Transportation Pipelines**
3LPE coating system has proved its worth in corrosion protection of onshore oil and gas pipelines for many years and currently is the leading system worldwide.
The increasing scarcity of water resources worldwide has made it a very precious commodity and currently corrosion protection and long service life for water pipelines are no less important than an oil or gas pipeline. 3LPE coatings is replacing the lower performing coal tar, cold applied tape and cement mortar coatings used in the past. Currently many water pipelines are being installed which are in the diameter range of 2 and 3 meters.
This presentation describes in detail the benefits of using PE materials for water distribution systems and for coating large diameter steel transportation pipelines. Examples of great value are provided from Africa, Middle East and especially from India.
Chanchal Dasgupta, *Application Marketing Manager (Pipe), Borouge*

- 13:00 Networking Lunch

SESSION 5: RESEARCH & DEVELOPMENT

- 14:30 **Insitu Pipe Coating in Field Applications**
In field (insitu) pipe coating (also referred to as Trenchless Technology) is a specialist process but more difficult in fixed pipelines requiring specialist maintenance in inaccessible locations or difficult access environments.
This presentation describes the utilization of specialist pipe coating equipment which makes this process more economically viable and reduces down time; replacement of pipes would be too expensive or time consuming. This presentation explores the utilization of new technologies to apply coatings including Epoxy, Polyurethane and Polyurea depending on the duty and conditions required.
Andrew Coverdale, *Managing Director, CoverCat Pipeline Engineering Limited*
- 15:00 **New Generation Blast Cleaning Abrasives for the Oil and Gas Sector**
In spite of the growth of captive blasting where metallic abrasives are used, the use of quality expendable abrasive in open blasting still is a major concern in the industry where the annual requirement exceeds quarter of a million ton in the petrochemical sector and half a million ton in the marine sector in the Middle East. This paper describes the difference in utilizing the new generation insitu field blasting for pipelines (field joint) having outstanding performance characteristics compared to other available abrasives.
Kabeer Khader, *Chairman & Managing Director, Euroblast Middle East LLC*
Jeroen Keswiel, *Commercial Manager Abrasives, SIBELCO EUROPE (Eurogrit BV)*
- 15:30 Chairman's Closing Summary
16:00 Afternoon Refreshments
16:30 End of Conference

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KEY BENEFITS OF ATTENDING

Located in Abu Dhabi, capital of one of the world's largest producers of oil and gas and home and neighbor to various national companies operating pipelines, making it the perfect hub to attract a large and diverse audience to conduct business with.

- Network with key players in pipeline protection from the GCC and Internationally at the only event of its kind in the region
- Discover the latest technologies and solutions for the pipeline industry
- Hear key experts discuss the trends and opportunities in pipeline coating for the region
- Explore and debate on the latest application techniques
- Gain knowledge on important project updates in the Middle East

IPCC 2015 Sponsorship

Is your company a supplier or service provider to the pipeline industry? This is your opportunity to show case your services to senior decision-makers.

After a successful conference in 2014, most of the sponsorship packages have already been sold; Therefore there are just a few packages remaining.

For more information on packages available please contact Hannah Capstick on M +971 (0) 5039 49 775 E hannah@mazeeevents.com

Delegate Registrations:

IPCC 2015 has been very competitively priced and group booking discounts are available for groups of 3 or more from the same organisation.

Hear more on the latest innovations and trends in pipelines and coating technologies then register by completing the attached registration form on this brochure, for more information contact info@mazeeevents.com

REGISTRATION FORM



Booking code: B2

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Email: Fill out this form and email it to info@mazeejevents.com for invoice and payment via bank transfer

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Last Name*:

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COMPANY DETAILS

Company Name*:

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*Mandatory fields

22-23 April 2015
UAE

BOOKING DETAILS

2 DAYS Main Conference: 22-23 April 2015

Price	Delegates
£1,100	1 <input type="checkbox"/>
£2,200	2 <input type="checkbox"/>
£3,300	3 <input type="checkbox"/>

For more delegates, please fill out another booking form. For groups of 5 or more delegates from oil and gas operating companies, please email info@mazeejevents.com for a discounted booking form.

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TERMS AND CONDITIONS

OFFICIAL VENUE AND HOTEL ACCOMMODATION

International Pipeline Coating Conference will take place at UAE.

Please visit the event website under "Venue and Accommodation" for a hotel booking form. **Early booking is recommended, as room availability is limited.**

PAYMENT AND REGISTRATION TERMS AND CONDITIONS

PAYMENT: Confirmation and invoice will be sent within 3 days. Payment is due immediately. If payment has not been received before the start of the event, delegates will be refused entry. We recommend you check with your finance department that payment has been made before travelling.

All 'Early Bird' and other Discounts require full payment at the time of registration and before any cut-off date in order to receive the discount. Should payment not be made, a subsequent charge will be applied to bring the registration fee up to the full rate.

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