

Abar Solutions Petroleum Consultancy



Dynamic Pressure Drilling (DPD)

(1st International Conference and
Exhibitions in Italy (Milan City))

From 19/12/2022 To 21/12/2022

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**Abar Solutions Petroleum Consultancy Invite You To Participate With Us Throw
Our 1st International Conference and Exhibitions in Italy (Milan City):**

Name	Dynamic Pressure Drilling (DPD)			
Period	Start	End	Place	Fees (USD)
3 Days	19/12/2022	21/12/2022	Italy, Milan City, NH Collection Milano Hotel	1990 USD

**The conference will held in english language and translations
available to Arabic, French & Italy**

Conference Description:

This 3-days conference is designed to help drilling engineering professionals understand the emerging technologies under the umbrella term of Dynamic Pressure Drilling (DPD). DPD refers to a group of technologies that relies on manipulation of downhole pressure via means other than mud weight alone to achieve wellbore objectives. DPD technologies include, Managed Pressure Drilling (MPD), Underbalanced Drilling (UBD), Flow Drilling, Low Head Drilling, (Pressurized) Mud Cap Drilling, Dual Gradient Drilling, Air Drilling, Foam Drilling and Continuous Circulation. By the end of the conference the participants should know where and how to apply the appropriate DPD method through their gained understanding of DPD equipment and DPD design and control methods. The safe implementation and delivery of DPD projects will also be studied. The conference will involve numerous examples of the applications of these types of projects drawn from the literature and the lecturer's own experiences. Examples will show the benefits, as well as the downsides and pitfalls of using these technologies. The aim of this conference is to draw on the experience of previous operators' implementation experience to learn how to implement a DPD project safely and correctly.

Conference Audience:

This conference is designed for drilling professionals embarking on a Dynamic Pressure Drilling assessment. For the greatest benefit participants should have a fundamental understanding of basic drilling technology.

Conference Speakers:

Dr Yang Lan

Dr Subraman Arunachalam

Dr Apostolos Georgakis

Dr David Moxey

Dr J. Simon Rofe

Dr Maria Sharmina

Monday 19 Dec. 2022 (1st Day)

8.30	9.00	Opening Remarks (30 Min.) Dr. Fadi Mohammad Al-Salfeti (Abar Solutions official representative in Europe)
9.00	11.30	<u>DISCUSS CONFERENCE AND EXHIBITION TOPICS:</u> <ul style="list-style-type: none"> • DPD Overview and Application Drivers • DPD Techniques and Fluids • DPD Equipment • DPD Design and Control • DPD Project Implementation
11.30	12.00	Coffee Break
12.00	15.00	<u>DPD Overview and Application Drivers</u> <ul style="list-style-type: none"> • Introduction and expectations • DPD overview • DPD application drivers <p><u>Participants will be given an overview of the large variety of DPD technologies, the IADC risk classification of these technologies in order to put them into some kind of perspective, and a brief history lesson on how these technologies have emerged, especially in the last decade. To understand why these technologies have developed it is important to understand the application drivers for the implementation of these technologies; this can range from a simple desire to increase ROP to the more complex and challenging reservoir characterization in real time while drilling.</u></p>
15.00	15.30	Questions and Discussion
15.30		Buffet Lunch

END OF THE DAY

Tuesday 20 Dec. 2022 (2nd Day)

8.30	9.00	Coffee Break
9.00	11.30	<p><u>DPD Techniques and Fluids</u></p> <ul style="list-style-type: none"> • DPD Techniques • DPD Fluid selection • DPD Gas selection • Specialty single phase fluids • Two phase flow <p><u>The various DPD techniques will be examined one by one, going over the methodology, current status, and advantages & disadvantages of each technology and where they should be applied. DPD Pressure Drilling reduces the necessity for heavier fluids and opens up opportunities to use lighter fluids and some novel fluid options will be discussed. For Underbalanced Drilling, it is often necessary to use injected gas to lighten the fluid, therefore the various gases that can be used and the ways of injecting them into the well bore will be covered along with two-phase flow physics and modelling.</u></p>
11.30	12.00	Coffee Break
12.00	15.00	<p><u>DPD Equipment</u></p> <ul style="list-style-type: none"> • Rotating Control Devices • MPD equipment • UBD equipment <p><u>We will focus on the equipment used in DPD operations. Starting with the Rotating Control Device, which is at the heart of holding pressure in the wellbore while drilling, then moving onto the various pieces of surface equipment that are used in both managed pressure and underbalanced drilling. Equipment covered will include chokes, separators, flow meters, nitrogen generation, flare lines and ancillary equipment. Participants will gain familiarity with the equipment, learn how the equipment works and the selection criteria for equipment in different applications. Various equipment layouts for different applications will also be covered including onshore, offshore and deep water.</u></p>
15.00	15.30	Questions and Discussion
15.30		Buffet Lunch

END OF THE DAY

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Wednesday 21 Dec. 2022 (3rd Day)

8.30	9.00	Coffee Break
9.00	11.30	<p><u>DPD Design and Control</u></p> <ul style="list-style-type: none"> • MPD Design & Control • UBD Design & Control • PMCD Design & Control • DPD Tripping & Completion <p><u>We will be all about the design and control of DPD operations. Of the utmost importance is well control and participants will learn about the differences between the primary barriers in conventional drilling versus DPD operations. The design of various DPD operations (MPD, UBD & PMCD) will be discussed, with the concept of the 'Anchor Point' in MPD operations covered in detail. Drilling with DPD techniques is often considered the 'easy' part, while tripping, running casing and cementing require the most thought and attention. The attendees will learn about the various methods to trip in and out of the well while staying in the drilling pressure window, as well as how to successfully cement and/or complete the well following a DPD operation.</u></p>
11.30	12.00	Coffee Break
12.00	15.00	<p><u>DPD Project Implementation</u></p> <ul style="list-style-type: none"> • DPD candidate selection • DPD project management and HSE <p><u>We will build on the knowledge gained from the previous days and will look at how to select the appropriate candidates for DPD operations. Contra-indicators for using DPD techniques will be discussed. The overall implementation and management of a typical DPD project will be examined with the emphasis on ensuring that the project is delivered safely through appropriate use of barriers.</u></p>
15.00	15.30	Questions, Discussion & Conclusion
15.30		Buffet Lunch

END OF THE DAY