IMMERSION INTO SHUAIBA FORMATION TO MAXIMIZE PRODUCTION

8-9 MARCH 2021
ABU DHABI, UAE
WESTIN ABU DHABI GOLF RESORT & SPA

REGISTRATION BROCHURE
Workshop Outline
The workshop will focus on the Aptian section of the Arabian Plate and will cover one of the main reservoirs in Thamama group (Shuaiba Formation). This part of the stratigraphic column is one of the most diverse regional stratigraphy which was likely the result of segmented basinal physiography during that time.

In several parts of the plate this section lies very moderate and drilling activity compared with other reservoirs which resulted in the very good data availability especially in well-structured areas. The section consists of known regional source (Bab member) and reservoir rocks (upper and lower Shuaiba).

Workshop Objectives
This workshop will enrich our knowledge in relation to regional and local geological commonalities and diversities. It will help in formulating and updating regional stratigraphic framework based on common stratigraphic and chronostratigraphic markers. The knowledge attained will enhance our ability to predict the source-reservoir-seal presence, its quality and distribution of the stratigraphic targets.

Benefits of Attending
Importantly, the workshop will expose the experience of exploring the stratigraphic traps from UAE, Oman and Saudi Arabia and best practices to develop it. Both oral and poster presentations make part of the workshop including presentations by invited keynote speakers. Additionally, core materials from various formations will be displayed and discussed. As the workshop will have a dedicated session on cores display from UAE, Petroleum Development Oman, and Saudi Aramco.

Who Should Attend?
This workshop is intended for geologists, geophysicists, petrophysicists, reservoir engineers, academic researchers, and decision makers working on the exploration, appraisal and development of carbonate hydrocarbon reservoirs.

COMMITTEE

Faaeza Ahmed Al Katheeri (Co-Chair)
Al Dhafra Petroleum

Ibrahim Al-Aghbari (Co-Chair)
Al Dhafra Petroleum

Christoph Lehmann
ADNOC Onshore

Bernardo J. Franco
ADNOC Upstream

Humberto Parra
ADNOC Upstream

Aisha Al-Hajri
PDO

Valentina Zampetti
Shell

Abdelmalek Messisha
Stratum Reservoir

Abdessalem Abba
Weatherford
SESSION 1: EVOLUTION OF EXPLORATION STRATEGIES FOR DEVELOPING NEW CONCEPTS

Discovery and delineation of the potential targets in the Aptian Shuaiba Reservoir has been historically focused on the prediction of the main Shuaiba build-ups and clinoforms, mainly along the margins of the Bab Intra-shelf Basin. However, several fields have reported hydrocarbon discoveries in different geological concepts, including hydrocarbon accumulation in lagoonal laterally continuous and uniform facies, hydrocarbon stratigraphically trapped in basinal and slope facies, hydrocarbon accumulation in diagenetically generated traps, and hydrocarbon redistribution around tilted fluids contacts. These new geological concepts have had open the opportunity for new developments all over the region. This session aims to discuss how to untap the potential of the Aptian interval at different parts of the basin, reviewing the challenges of characterizing tight prospects and providing comprehensive understanding of trapping mechanisms, migration pathways, reservoir performance and fluid distribution.

SESSION 2: DELINEATION OF SHUAIBA STRATIGRAPHIC CLINOFORMS BOUNDARIES

Traditionally the main reservoir target of exploration and development in the Shuaiba Formation across Oman and the UAE were the giant Early Aptian rudist build-ups fringing the Bab Basin. Over the past 20 years significant efforts have been made to define in more detail the prospective, offlapping clinoform geometries of the Late Aptian lowstand within the intrashelf Bab Basin. Exploration and Development of this play faces some key challenges. The clinoform reservoir units are thin, often at or below seismic resolution making their gross volume definition uncertain. Their vertical and lateral sealing geometries can be complex due to the interaction of multiple alternating reservoir and intraformational seals with the overlying regional unconformity. Water saturation estimation is a key uncertainty due to their stratigraphic trapping nature. Consequently, the definition of economic volumes coupled with an effective long-term development plan is particularly challenging in this Shuaiba Formation reservoir. This session aims to capture the current progress in the evaluation of the challenging Shuaiba Formation clinoform stratigraphic trap play – specifically new advances in the use of 3D seismic attributes to define boundaries, the use of logging tools and updates on regional syntheses.
SESSION 3: MATURING SHUAIBA STRATIGRAPHIC FIELDS

The concepts behind developing field exploitation strategies are the primary objectives of this session fundamentally based on maturity of exploitation practices with high inclination towards secondary applications of hydrocarbon recovery methods in the Shuaiba producing fields. This session will focus on the importance of understanding the Shuaiba regional stratigraphy, lateral and vertical lithofacies variation and layering, as well as heterogeneity driven by structuration and diagenesis in predicting and evaluating the reservoir production performance.

Furthermore, this session aims to capture ongoing efforts to integrate geological and petrophysical aspects for the Shuaiba Reservoir rocks typing for more robust reservoir modeling.

SESSION 4: BEST PRACTICES AND TECHNOLOGIES TO MAXIMIZE SHUAIBA PRODUCTIVITY

The speakers will focus on bridging the gaps between advancements in technologies, practices and the ever-growing challenges seen in Shuaiba Formation (e.g. drilling and completing wells through highly fractured and/or Karstified intervals). Capturing lessons learned through robust process timely is also an integral element toward successful drilling and completing to maximize production from Shuaiba Formation. This session provides an opportunity to share best practices in these areas, which could further improve efficiency management for Shuaiba production moving forward.
WORKSHOP GUIDELINES

FORMAT
The workshop will be 2 days, consisting of oral presentations, poster presentations, core displays and breakout sessions where participants can discuss and investigate a specific theme that is of mutual interest. The first day will feature an inaugural keynote speech by a high-profile professional from the industry.

ATTENDANCE
Registrations are invited from all relevant disciplines with experience and/or knowledge of the subject areas being addressed in the workshop. Registrations will be accepted on a first-come, first-served basis.

CALL FOR POSTERS
You are invited to prepare a poster display for presentation. If you are interested in participating, please send a short abstract along with the poster artwork (in PDF high resolution format) to bwelch@aapg.org by 8 February 2021. All posters will be produced as pull-up banners and delivered by AAPG. There will not be any other format available for poster display. Please ensure that the poster artwork measurements are 85 cm (width) x 165 cm (height). Please provide the topic with a short abstract of the proposed poster.

REGISTRATION TYPES & FEES
Fees are inclusive of onsite documentation, coffee breaks and luncheons. To register as a 'Student / Young Professional' you must either be a current student or a young professional under the age of 35 with less than 10 years of work experience.

WORKSHOP LOCATION
Abu Dhabi, UAE

CANCELLATION POLICY
AAPG will refund the tuition, less a $100 processing fee, if the request is received no later than 30 days prior to the workshop. Cancellations must be made in writing. The registrar will accept cancellation notices by telephone, but all such notices must be followed up by fax or e-mail. No refund will be made for cancellations received less than 30 days prior to a workshop being given. Nonpayment of tuition does not constitute automatic cancellation. If no cancellation notice is received by 30 days prior to a workshop, participants are liable for full tuition. AAPG reserves the right to cancel a workshop if enrollment is insufficient to ensure proper effectiveness. Substitutions for individuals can be made at any time. A paid enrollment may be transferred one time to a future workshop if the request is received prior to the 30 day cut-off date.

EVENTS CALENDAR

2020
14-17 SEPTEMBER MANAMA, BAHRAIN  
GEO 2020: 14th Middle East Geosciences Conference and Exhibition

2021
1-2 FEBRUARY AL KHOBAR, SAUDI ARABIA  
2nd Edition: Decision Based Integrated Reservoir Modeling

22-24 FEBRUARY TBC  
2nd Edition: Maximizing Asset Value: Integrating Geoscience with Reservoir Management & Facilities Optimization

8-9 MARCH ABU DHABI, UAE  
Immersion into Shu’aiba Formation to Maximize Production

22-24 MARCH MANAMA, BAHRAIN  
Source Rocks of the Middle East

29-31 MARCH AL KHOBAR, SAUDI ARABIA  
3rd Edition: Stratigraphic Traps of the Middle East

5-9 APRIL KUWAIT CITY, KUWAIT  
Exploration and Development of High Pressure and High Temperature Reservoirs

31 MAY-2 JUNE ABU DHABI, UAE  
6th Edition: AAPG/EAGE Tight Reservoirs in the Middle East

7-9 JUNE TBC  
Integrated Process-Based Geological Modeling in Exploration and Production

21-23 SEPTEMBER TUNIS, TUNISIA  
MEDINA Technical Conference & Exhibition

24-27 OCTOBER MUSCAT, OMAN  
International Conference and Exhibition [ICE]

22-24 NOVEMBER AL KHOBAR, SAUDI ARABIA  
2nd Edition: Low Resistivity Pay

6-8 DECEMBER MANAMA, MANAMA, BAHRAIN  
4th Edition: Siliciclastic Reservoirs of the Middle East
## REGISTRATION FORM

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### REGISTRATION TYPE & FEES

- **Member*/Speaker ($1,100)**
- **Non-Member ($1,300)**
- **Join & Save ($1,300)**
- **Young Professionals ($850)**
- **Academia ($500)**
- **Students ($300)**

*To avail the member rate you must be an ACTIVE member of AAPG*  
(All rates are exclusive of 5% VAT)

### PAYMENT

- **MasterCard**
- **VISA**
- **American Express**
- **Discover**

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Credit card charges will be processed in US dollars.

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**COMPLETE THIS FORM AND SEND TO: BRITTANY WELCH**  
Event Coordinator  
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Invoices must be paid within 10 days of receipt. Should your application be received six weeks prior to the commencement of the workshop, please note that we will only accept credit card payment. AAPG will refund the tuition, less a $100 processing fee, if request is received no later than 30 days prior to the workshop. Cancellation must be made in writing. The registrar will accept cancellation notices by telephone, but all such notices must be followed up by fax or e-mail. No refund will be made for cancellations received less than 30 days prior to a workshop being given. Nonpayment of tuition does not constitute automatic cancellation. If no cancellation notice is received by 30 days prior to a workshop, participant is liable for full tuition. AAPG reserves the right to cancel a workshop if enrollment is insufficient to ensure proper effectiveness. Substitutions for individuals can be made at any time. A paid enrollment may be transferred one time to a future workshop if the request is received prior to the 30 day cut-off date. The American Association of Petroleum Geologists (AAPG) does not endorse or recommend any products and services that may be cited, used or discussed in AAPG publications or in presentations at events associated with AAPG.