

**EAGE**

EUROPEAN  
ASSOCIATION OF  
GEOLOGISTS &  
ENGINEERS



**AAPG**



# EAGE/AAPG Hydrocarbon Seals Workshop

**INNOVATION IN HYDROCARBON SEALS & SUSTAINABILITY PRACTICES**

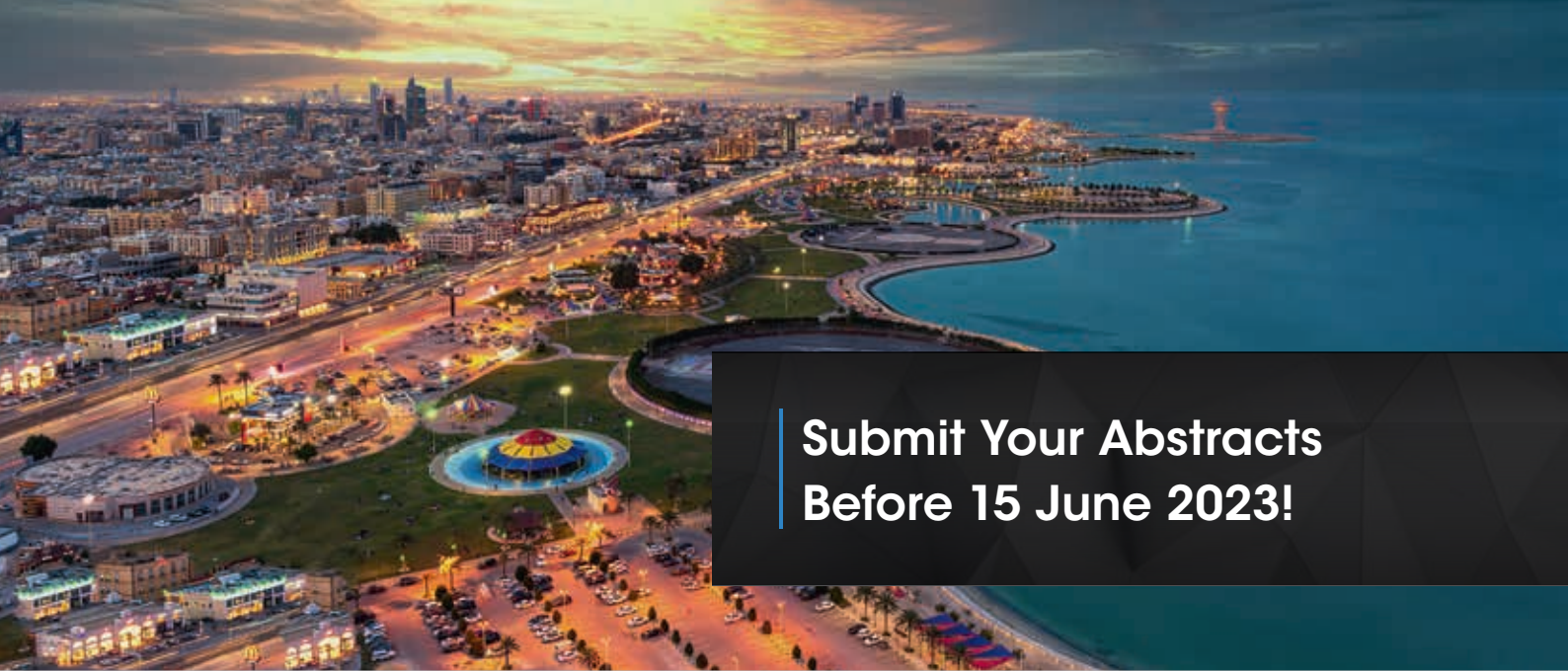
28-30 NOVEMBER 2023 • AL KHOBAR, SAUDI ARABIA

- **First Announcement**

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## Submit Your Abstracts Before 15 June 2023!

### TECHNICAL COMMITTEE

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| Ali Al-Ghamdi (Chair) | Aramco                    |
| Philippe Rabiller     | Rabiller Geo-consulting   |
| Saleh Al-Qahtani      | Aramco                    |
| Hussain Hoteit        | KAUST                     |
| Salim BaOmar          | DAPECO (Daleel Petroleum) |
| Awadelgied Adam       | Aramco                    |

### WORKSHOP OVERVIEW

The fourth EAGE/AAPG Hydrocarbon Seals Workshop is three-day event and has the primary goal to exchange knowledge, case studies, techniques and workflows to enable geoscientists of understanding and evaluating hydrocarbon seals for exploration purposes through presentation, posters and discussions materials.

Hydrocarbon seal is essential element of the petroleum systems and responsible of accumulating commercial hydrocarbon column within structural or stratigraphic entrapments. Despite the importance of this element to the petroleum system, it is the least understood component among the petroleum system elements. Hydrocarbon seals are the highest risk element responsible on the failure of exploratory wells to find more oil and gas based on published studies of well failure analysis.

In last few decades, there is a clear increase in knowing more about seals evaluation in order to understand the stratigraphic entrapment mechanism. More recently, the increase of CO<sub>2</sub> sequestration activities gives arise to the importance of top and lateral seal evaluation. Top and lateral seal should be evaluated thoroughly in any stratigraphic entrapment setting.

The workshop will present and discuss the advancement of wide range of topics in seal evaluation from seal capacity estimation, geomechanics and seal integrity, CO<sub>2</sub> sequestration aspects, AI in facies and petrophysical property, forward stratigraphic modeling and seal risk assessment. The importance of integrating different data set to evaluate seals will be discussed in details.

### Workshop Objectives

The Fourth EAGE/AAPG Hydrocarbon Seals Workshop will have a wide range of topics to cover seal evaluation. The workshop program will include the stratigraphic and structural frameworks, petrophysical, geomechanics, special core analysis and advances in technologies of seal assessment.

### TOPICS

The following seal topics and subtopics will be covered with presentations and posters and participants will have enriched discussions and experience during this workshop.

#### Regional and Intraformational Seal Stratigraphic and Structural Settings

- Hydrocarbon seal importance to exploration strategies
- Seal stratigraphy and facies variations in carbonate and clastic environments
- Geometries for top and lateral seals using seismic data for structural setting
- Lateral seals assessment in stratigraphic/diagenetic entrapment
- Forward stratigraphic/diagenetic modeling for seal development
- Seal evaluation and prediction within sequence stratigraphic framework

#### Seal capacity and integrity evaluation using capillarity, fault and fracture assessment

- Seal capacity assessment using capillarity methods
- Seal evaluation from outcrop to subsurface data
- Fault and fracture predictions in seal intervals
- Fault seal analysis for structural entrapment
- Geomechanics and seal integrity of conventional hydrocarbon reservoirs
- Overpressure predictions for seal integrity

#### Technology, solution and sustainability in seal assessment techniques

- Integration of petrophysical, rock mechanics, seismic and engineering data for hydrocarbon seal assessment
- AI in facies and petrophysical property predictions
- Seal evaluation for CO<sub>2</sub> sequestration and hydrogen storage
- Risk assessment in seal evaluation

## BENEFITS OF ATTENDING

The workshop will be a great venue for geoscientists who would like to know more about the aforementioned topics and they are encouraged to attend this fourth edition of Hydrocarbon seal workshop. Attendees will have exposure of latest experiences and case studies of the hydrocarbon seal topics and latest advancement of Co2 sequestrations on the region.

## IMPORTANT DATES

|                               |               |
|-------------------------------|---------------|
| Call for Abstracts Open       | 6 April 2023  |
| Call for Abstracts Close      | 15 June 2023  |
| Technical Programme Available | 1 August 2023 |
| Registration Open             | 1 August 2023 |

## SPONSORING

Sponsorship packages for all budgets are available for this event, please write to us on [middle\\_east@eage.org](mailto:middle_east@eage.org) OR [sco@eage.org](mailto:sco@eage.org) to learn about potential sponsoring opportunities.

## REGISTRATION FEES

| REGISTERED AND PAID          |         |
|------------------------------|---------|
| Member Fee                   | \$1,650 |
| Committee/Presenter          | \$1,550 |
| Academia Fee                 | \$650   |
| Student Member (Masters)     | \$500   |
| Non-Member Fee               | \$1,850 |
| Student Non-Member (Masters) | \$550   |

• Members please note: To qualify for the member registration fee, your EAGE membership dues for 2023 must have been paid and confirmed. The processing time for membership applications or renewals is 10 working days.

To qualify for the reduced student registration fee:

- Students must be enrolled in a full time study programme at a recognised university or institute
- The registration must be accompanied by a copy of a student ID card and/or official proof of enrolment

The Non-member fee includes EAGE membership for the remainder of 2024 (31/12/2024). This membership will be activated shortly after the event.

Student Non-members cannot be older than 34 years of age (when registering).

All fees are in USD (\$).

Please note: The deadlines are following the Local Time in the UAE.

EAGE reserves the right to cancel the workshop due to low participation. In this case, payment will be refunded in full.

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AAPG/SPWLA LOW  
RESISTIVITY RESERVOIRS:  
PATH TO EXPLORE,  
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# UPCOMING REGIONAL WORKSHOPS & CONFERENCES

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## SEVENTH EAGE BOREHOLE GEOPHYSICS WORKSHOP

18-20 September 2023 • Milan, Italy

## SECOND EAGE SEABED SEISMIC WORKSHOP

18-20 September 2023 • Milan, Italy

## SEVENTH EAGE HIGH PERFORMANCE COMPUTING WORKSHOP

25-27 September 2023 • Lugano, Switzerland

## FIFTH EAGE BOREHOLE GEOLOGY WORKSHOP

21-23 November 2023 • Al Khobar Saudi Arabia

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