



ADVANCES IN SUBSURFACE IMAGING AND MAPPING

CROWNE PLAZA HOTEL, MUSCAT, OMAN | 16-17 MAY 2016

This workshop aims at sharing knowledge and ideas on the advancements in subsurface mapping. This includes recent technologies in acquiring seismic and non seismic data, improvements in imaging the subsurface and advances in data interpretation.

The entire oil & gas industry depends on seismic data interpretation, whether for exploration or production purposes, in building an understanding about the subsurface in terms of structure, depositional settings, depth etc. however, only recently a trend is observed in combining seismic and non seismic data to improve this understanding. This is especially helpful in regions of complicated geology, salt movements and other inclusions.

The industry has also seen vast improvements in acquiring and processing seismic data in order to deliver a better subsurface image. Examples of these

advancements: Broad Band seismic, WAZ acquisition, depth migration, multiple attenuations etc.

With vast improvements in data quality, reservoir properties are more confidently extracted. Seismic inversions and attributes are heavily being used. This along with statistical modeling help build a better picture of the subsurface.

Finally, when the data is in the hands of interpreters it is very important to utilize all available data, combine and assess the uncertainties in order to improve mapping of the subsurface targets.

Therefore, the workshop will be an opportunity to combine the efforts of both geologists and geophysicist to better understand the subsurface and utilize the best technologies for subsurface mapping.

REGISTRATION BROCHURE

PROGRAM COMMITTEE

Co-Chairs

Thierry Lecoq, ADMA-OPCO
Olivier Hermant, CGG

Committee Members

Zhao Jie, BGP
Yunseok Choi, KAUST
Martin Rademakers, Saudi Aramco
Philippe Steeghs, TNO
Luis Pernia Soto, Total E&P Qatar



TECHNICAL PROGRAM

DAY 1 MONDAY, 16 MAY

07.00-08.00 Workshop Registration

08.00-08.10 Workshop Chairmen's Welcome and Introduction

08.10-08.20 Inaugural Keynote Speech

08.50-12.00 **SESSION 1: RECENT ADVANCES IN SEISMIC ACQUISITION**

Significant research and development in seismic acquisition is taking place with both broadband and simultaneous-source methods. Many companies have tested numerous techniques for acquiring extended bandwidth seismic over past 4 years. Simultaneous-source acquisition has proven to efficiently and economically acquire much more long offset, full azimuth data. Using fiber optics as seismic receivers is another attractive research taking place, because it can provide measurements at any point along the fiber. All these and other advancements in the seismic acquisition are to be highlighted in this session.

12.00-13.30 Lunch

13.30-16.50 **SESSION 2: RECENT ADVANCES IN PROCESSING**

In a difficult context for Oil & Gas Exploration where budgets are compressed we need to extract the most valuable information from the seismic data in order to provide the downstream parts of the exploration cycle with data fit for purpose.

As always and with more emphasis in today's context new technologies and algorithms in processing can positively contribute by getting higher resolution data with less noise and multiples.

In this session we will concentrate on recent advances in 4D, Multi-Components, Depth Imaging and De-Multiples techniques within the framework of improving subsurface imaging and multi-dimension mapping. This would focus on new or near-future technologies and could be supported by case studies and/or theoretical presentations.

DAY 2 TUESDAY, 17 MAY

08.30-12.00 **SESSION 3: RECENT ADVANCES IN RESERVOIR CHARACTERIZATION**

Reservoir characterization integrates and reconciles various geological and engineering information from pore to basin scale in order to create a high resolution geosciences model. Examples of these information are: seismic, microseismic, cores, logs, analogues etc. Advancements in reservoir characterization tools and methods, for example, seismic inversions, attribute extractions, reservoir surveillance, statistical modeling and the integration of these information will yield to a better, higher quality geosciences model.

12.00-13.30 Lunch

13.30-17.00 **SESSION 4: RECENT ADVANCES IN REPRESENTATION & VISUALIZATION**

The industry is entering a new level of wide azimuth technical analysis, data integration and 3D visualization of oil and gas resources. New advances in visualization software permit better understanding of the complex subsurface, and allows accurate placement and geo-steering of wellbores. Exploration in recent years has become increasingly dependent on integration of technical disciplines.

In this session, the focus will be on superior representation of the oil and gas trap and integration of all the various data types and workflows, and uncertainty assessment used to make the critical financial decision to drilling a well. Billions of dollars are spent each year generating new wellbore locations. The resulting new oil and gas resources are essential for long term economic growth and prosperity.

17.00-17.20 Wrap Up and Workshop Adjournment



WORKSHOP GUIDELINES

FORMAT

The workshop will be 2 days, consisting of presentations and break out sessions, where participants can discuss and investigate a specific theme that is of mutual interest.

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 JPEG or PDF high resolution format) to cstarbuck@aapg.org by **17 April 2016**. 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). All accepted abstracts will be published on the workshop "Abstracts USB" and distributed to delegates on-site. Kindly provide your permission to publish your abstract upon submission or it will not be included on the abstract USB. Please provide the topic with a short abstract of the proposed poster. Please note that poster presenters are expected to register and attend the workshop.

DOCUMENTATION

Participants will be provided with electronic access to documentation from the breakout sessions after the workshop.

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 work experience.

REGISTRATION DEADLINE

To guarantee your seat, please make sure to register by **9 May 2016**

WORKSHOP LOCATION:

Crowne Plaza Hotel, Muscat, Oman
Tel: +968 24660660

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.

AAPG EVENTS CALENDAR

AAPG Annual Convention & Exhibition
19-22 JUNE 2016 - CALGARY, CANADA

AAPG/SEG Conference International Conference & Exhibition
6-9 SEPTEMBER 2016 - CANCUN, MEXICO

AAPG/EAGE/SEG/SPE The Knowledge Management Challenge
16-17 NOVEMBER 2016 - ABU DHABI, UAE

SPE/AAPG/EAGE Shale Plays Workshop
21-23 NOVEMBER 2016 - MUSCAT, OMAN

Africa Energy & Technology Conference
5-7 DECEMBER 2016 - NAIROBI, KENYA

SEG EVENTS CALENDAR

D&P Forum: Characterization of Tight Reservoirs
18-19 APRIL 2016 - MANAMA, BAHRAIN

AAPG/SEG Conference International Conference & Exhibition
6-9 SEPTEMBER 2016 - CANCUN, MEXICO

Multi-physics Imaging for Integrated Exploration and Field Development
4-6 OCTOBER 2016 - DUBAI, UAE

SEG International Exposition and 86th Annual Meeting
16-21 OCTOBER 2016 - DALLAS, TEXAS, USA

AAPG/EAGE/SEG/SPE The Knowledge Management Challenge
16-17 NOVEMBER 2016 - ABU DHABI, UAE

SEG/KOC Broadband Point Source Point Receiver Workshop
5-7 DECEMBER 2016 - KUWAIT CITY, KUWAIT



REGISTRATION FORM

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Last Name

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First Name

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Nickname for Name Tag

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 Male

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 Female

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Company

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E-mail (required)

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Business Address

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Business Telephone

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Job Title

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Fax

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I am a member of: AAPG EAGE SEG SPE Other

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Membership N°

REGISTRATION TYPE & FEES

Member (\$ 1100) Non Member (\$ 1200) Students/Young Professionals (\$ 500)

PAYMENT

MasterCard VISA American Express Discover

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Card Number

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Credit card charges will be processed in US dollars.

Return this form to: Cameo Whitney-Starbuck

American Association of Petroleum Geologists Middle East | Administrative & Events Coordinator

Email: cstarbuck@aapg.org | Tel: +971 4 372 4201 | Fax: +971 4 372 4204

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.



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Middle East Region

