JFES NewsLetter

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Japan Formation Evaluation Society – A Chapter of SPWLA

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Best Presentation Award of the 24th Formation Evaluation Symposium 2018

JFES Board members would like to recognize that the presentation "Fracture extension behavior dominated by geologic features of pre-existing natural fractures and stress barriers" is worthy to receive the Best Presentation Award for the JFES Symposium held at JOGMEC-TRC on October 11-12, 2018. The testimonial will be given to the awardees at the coming SPWLA Japan/JFES Symposium of this year. The awarded presentation and the authors are shown below.

FRACTURE EXTENSION BEHAVIOR DOMINATED BY GEOLOGIC FEATURES OF PRE-EXISTING NATURAL FRACTURES AND STRESS BARRIERS – AN INTERPRETATION OF MICROSEISMICITY AT THE NORTH MONTNEY UNCONVENTIONAL SHALE GAS FIELD, BRITISH COLOMBIA

Yuto Sasaya [(1)], Yusuke Kumano [(1)], Isao Kurosawa [(2)]

(1) JAPEX
(2) JOGMEC

Combining the technique of microseismic, seismic attributes and logging data, fracture creation behavior in shale gas field and its relationship between existing natural fractures have been investigated in this study. Geomechanical properties such as Poisson's ratio and Young's modulus have been adopted and the term "stress barrier" well-describes the cause of fracture creation blocked in the specific layers.

Under the current situation in our industry, applying adequate operation to maximize recovery from existing fields is as important as finding new fields. This cannot be accomplished by understanding geological & geomechanical features in our field precisely.

Future development of this study and its contribution is highly expected.

(Aiko Takada, Session Chair)

Invitation to the 107th Chapter Meeting

We are pleased to announce that the forthcoming Chapter Meeting will be held as follows. (As we reviewed the way we counted the number of meetings, the next chapter meeting will be the 107th one.)
Those who are interested in attending this meeting, please register here by **March 7, 2019.**

Registration: https://goo.gl/forms/WMJQvAeXI1jYxeZS2
Date & Time: Thursday, March 14, 2019, 15:30 – 17:30

Venue: **Schlumberger K. K. (https://jp.slb.com/)**
9th Floor, Mercros Building 3-9, Nihonbashi 3-chome, Chuo-ku
Tokyo 103-0027, Japan

メルクロスビル9階
(東京都中央区日本橋3丁目3番9号)

Program:
Presentation 1:
<Title> *Well Log Analysis with Class-Based Machine Learning for Petrophysics*

<Speaker> *Yuki Maehara (in Japanese)*

<Abstract>
最近のE&P業界全体の技術的な興味として，デジタル技術が注目されていることは明白であり，多くの会社等でスペシャルチームが結成されて様々な取り組みがなされている。検層解析の分野においても2018年JFES symposiumにAkkurt氏によるmachine learningを使った検層データのQC関するInvited talkは記憶に新しい。しかし，講演者は多くの場でデジタル技術に関する話はよく聞くものの，実務として使用する機会もなく，有効性についての実感が未だ薄い。

そこで本講演ではWu, et al. (2018) "Machine learning–based method for automated well log processing and interpretation"にて公表されたmachine learningを使用した検層解析・解釈のworkflowを紹介しつつ，どの様な場面で個々の業務に対して有効的か，日ごろから検層解析に携わることの多いJFES関係者と議論する。

Presentation 2:
<Title> *Borehole Image for Carbon Capture Storage Site Selection and Operation*

<Speaker> *Somenath Kar (in English)*

<Abstract>
Successful Carbon Capture and Storage site selection and successful operation require detail assessment of capacity, injectivity and containment of the target layers. Borehole image data can play critical role for more accurate understanding of "Capacity, Injectivity and Containment".

In this talk, I will highlight some of the innovative application of borehole image in the context of carbon capture site selection and operation planning; like: sub-seismic scale structural style identification, sand distribution pattern recognition, high resolution depositional facies characterization, borehole stress regime determination.

Icebreaker（懇親会）

Place: 9th Floor, Mercros Building
Time: 18:00~
Fee: Free

Map (https://jp.slb.com/html/contact/)