# *JFES Newsletter*

Japan Formation Evaluation Society (http://www.geocities.jp/ymmiya/)

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## Best Paper of the Twelfth Formation Evaluation Symposium 2006

Best paper was selected from 17 papers presented at the Twelfth Formation Evaluation Symposium held on October 4th-5th of 2007. For this selection, Board members reviewed every paper on March 22nd, 2007. The testimonial will be given from JFES to the awardees later. The awarded paper is as follows:

**Title: Development of the Wireline MWD system for Controlled Drilling Technology**
Authors: Kenzo Kiho, Kimio Miyakawa, Koichi Suzuki (Central Research Institute of Electric Power Industry), Yukihiro Mizuochi, Yasushi Komoda, Kazunori Hase (Sumiko Consultants) and Masato Nakadai (Geophysical Surveying)

## Invitation to 59th Chapter Meeting

We would like to announce that the forthcoming Chapter Meeting will be held as follows. Please let us know if you are interested in attending this meeting **by May 2nd**, both for Chapter meeting and buffet to Ms. Ayumi Higuchi (ahiguchi@tokyo.oilfield.slb.com)

**Venue:** **Japan Petroleum Exploration Co., Ltd.**
19F Conference Room, Sapia Tower, 1-7-12, Maruhouchi, Chiyoda-ku, Tokyo
Tel: 03-6268-7131
Contact: Tetsuya Yamamoto
*(Please see the map at the last page)*

**Date:** **May 14th, 2007**

**Program:** 16:00 Time-Lapse Seismic Survey in the Oil Sands Area
- JACOS SAGD Operation Area, Athabasca, Canada –
中山 徹○, 高橋明久 (JAPEX), 持永尚子 (JOGMEC)

検層データのスペクトル・トレンド解析による堆積サイクルの摘出と坑井対比
- CycloLogによる堆積学的・層序学的解析例
高野 修（JAPEX）

** Presentation will be given in Japanese.*

17:30 Snacks Buffet

**Abstracts of Topics:**

**Time-Lapse Seismic Survey in the Oil Sands Area**
**- JACOS SAGD Operation Area, Athabasca, Canada –**
**中山徹〇・高橋明久（JAPEX）、持永尚子（JOGMEC）**

Time-lapse 3D seismic study was conducted in the Japan Canada Oil Sands Limited (JACOS) Hangingstone steam-assisted gravity drainage (SAGD) operation area, Alberta, Canada. The objective of the study was to delineate the steam affected zone with the 3D seismic data acquired at different production stages. The time-lapse surveys were acquired in February, 2002 and in March, 2006. The two seismic volumes show distinct seismic response changes around the SAGD well pairs. From our time-lapse data analysis and seismic modeling study based on well logs, these differences of the seismic responses between the time-lapse seismic cubes were interpreted as phenomena caused by P-wave velocity decrease of the oil sands layers due to the steam-injection. The time-lapse seismic monitoring and the seismic modeling are very useful to investigate the rock property changes of the interwell reservoir sands in the field.

**検層データのスペクトル・トレンド解析による堆積サイクルの摘出と坑井対比**
**－CycloLogによる堆積学的・層序学的解析例**
**高野　修（JAPEX）**

ENRES InternationalのCycloLogは、検層データのスペクトル解析、トレンド解析を行うソフトウエアである。この解析結果を用いることによって坑井1次元データ上の、上方粗粒化・細粒化トレンドの摘出、長周期～短周期の堆積サイクルの摘出、トレンドやサイクルを基にしたシーケンス層序解釈、および詳細な坑井間対比などが可能である。とくに、チャネルの収斂など岩相の側方変化が激しい河川成～デルタ成砂岩貯留層区間や、単調で対比がつきにくい泥質岩区間やプラットフォーム炭酸塩岩区間においても、堆積サイクルを摘出することが可能であり、詳細な坑井間対比において有効である。

**Map of the venue:**