JFES NewsLetter

Japan Formation Evaluation Society – A Chapter of SPWLA

No.68 May 2009

JFES Newsletter
Contact: S. Kobayashi
Schlumberger K.K.
e-mail:kobayasi@fuchinobe.oilfield.slb.com
Tel: 042-759-2115 / Fax: 042-759-4271

Announcement from the Secretary Board

Best Paper of the 14th Formation Evaluation Symposium 2008

Best paper was selected from 28 papers presented at the 14th Formation Evaluation Symposium held at JOGMEC-TRC on September 29-30, 2008. For this selection, Board members reviewed every paper at the last board meeting and chose the awarded paper by the voting. The testimonial will be given to the awardees at the coming JFES Symposium of this year. The awarded paper and the authors are shown below.

Detection of Surface Deformation Related with CO2 Injection by DInSAR at In Salah, Algeria

By Takumi Omura and Shiro Ohkawa, JGI, Inc.

<Review's comments>
The authors showed that the surface heave rate of 7 mm/year related to the CO2 injection operation in the In Salah Gas Project in Algeria was analyzed around all three CO2 injection wells by applying Differential Interferometric SAR (DInSAR) stacking process. In general monitoring method for CCS (Carbon dioxide Capture and Storage) such as In Salah in Algeria, the Sleipner in Norway and Weyburn Project in Canada can be divided into seismic and non-seismic techniques which require large number of observations at high cost. However, the authors adopted to use the satellite-borne SAR image data to monitor changes and succeeded in detecting the surface deformation associated with CCS project with a high level of accuracy, with tremendously reduced cost. The authors have demonstrated a feasibility of this technique and have created the possibility of further modeling with the conventional geophysical data. As mentioned above this paper is recommended to receive the best paper of the JFES Symposium 2008.

本論文は、アルジェリア陸上In Salah ガスプロジェクトにおいてCO2圧入による地表への影響を衛星画像を利用して明らかにしたものである。2003年～2008年までの衛星画像にDInSAR (Differential Interferometric SAR)と呼ばれる解析手法を適用し経年変化を調査したもので、CO2圧入井周辺において年間7mmの隆起量を観測することができた。一方で、生産井の沈下量は年率3mmと推定された。一般的にCCS (Carbon dioxide Capture and Storage)のモニターには、地震探鉱と非地震探鉱の2つの物理学的手法があり、前者にはマイクロ地震探鉱や4次元地震探鉱が、後者には坑井重力、比抵抗変化、制御されたソースによる電磁探査（CSEM）等があるが、いずれも収録にかなりの費用が掛るのが欠点である。これに対し、DInSARは非常に安価で、しかも他の手法とその精度において遜色がないこと、また、従来の物理学的調査結果と合わせたモデリング構築の可能性が開けた。以上のことから、本論文は従来あまり顧みられなかった衛星画像を利用した手法を用い、安価で有益な調査結果が得られたこと、また、今後のCCSモニター用技術開発への展望を切り開いた点が高く評価できる。よって、今回のシンポジウムのBest paperに推薦する。

The 50th SPWLA Symposium

The SPWLA will be holding its 50th Annual Symposium from June 21-24, at The Woodlands, Texas.

http:/www.spwla2009.com/

JFES
Japan Formation Evaluation Society

JAPAN FORMATION EVALUATION SOCIETY
- Japan Chapter of Society of Petrophysicists and Well Log Analysts -

The 15th Formation Evaluation Symposium of Japan
JOGMEC-TRC, Chiba October 1-2, 2009

The closing date for "Call for Abstract" submission entries is June 15

As we announced, the 15th Formation Evaluation Symposium of Japan will be held at Japan Oil, Gas and Metals National Corporation (JOGMEC) - Technology & Research Center, Chiba on October 1-2, 2009. All persons involved in oil, gas, geothermal and geo-engineering industry and scientific drillings are invited to submit abstracts of papers for presenting at the symposium. The symposium will cover Scientific Drilling, General Formation Evaluation, Reservoir Characterization, Fractured Reservoir, New Tool/ New Technology, Production Logging, Methane Hydrates and Geophysical Applications. A special session **"Well Testing"** will be featured this year.

JFES encourages students to participate. **A Best Student Award** will be presented to an outstanding paper presented by students.

Abstract is due no later than June 15, 2009. For details, please refer to the attached **"Call for Abstracts."** Looking forward to hearing from you!

Abstract submission form is available at JFES home page:
http://www.geocities.jp/ymmiya/Japanese.htm

ABSTRACT IS DUE NO LATER THAN JUNE 15, 2009

Submit abstracts to: Kanako Furuto
Assistant of VP-Technology, JFES
JAPEX Research Center
1-2-1 Hamada, Mihama-ku, Chiba 261-0025, JAPAN
Telephone: +81(43)275-9311 Fax: +81(43)275-9316
e-mail: kanako.furuto@japex.co.jp