



NEWSLETTER: September 2008

Message from the LPS President:

Thanks to Kirill Shmyglia, our own VP Technology, for giving the July evening meeting presentation on Exxon Mobil's approach to thin bed Petrophysical evaluation on the 21st. It was well attended and several technical disciplines were represented in the audience. It was also good to see a number of younger faces in the audience as we had several recently qualified engineers and geologists present. I hope we can continue to attract these new faces to the LPS.

With summer holidays now over the LPS Committee are looking forward to the rest of the year and beyond. A number of interesting evening meetings and topical seminars are in the pipeline and we will be giving you more details on these in the next few months as arrangements are finalised.

Looking ahead in particular to the AGM in November, some positions on the committee may be up for election. Please give consideration as to whether you, or one of your colleagues would like to stand for election. The roles require varied amounts of time commitment and hence hopefully we could find something to fit with your 'real job'. Please free to contact Patrick Crossouard or any member of the committee if you have any questions or suggestions.

Recently the committee was asked to supply a quarterly summary of activities and highlights to our parent organisation, the SPWLA, for possible inclusion in the *Petrophysics* journal. This was a great opportunity to look back and see what we have achieved. I was particularly pleased at the following:

- At present our membership continues to grow and now stands at 169 members, including 47 New Members, 15 Honorary Members and 15 Students, an increase on 2007.
- The Academic grants and bursary scheme has been promoted in recent months including a link on the LPS / Dialog website. We have three students applying for grants at the moment and we will assess these candidates at the next LPS meeting.
- Our sponsorship has increased. Currently our generous sponsors are RWE, Halliburton, Schlumberger, Weatherford, BG, Tullow, ResLab, ExxonMobil, BP, Hess, Senergy, Centrica, Fugro Jason and Perenco. The good sponsorship and high membership have meant that the accounts are in good shape going into the last quarter of the year.

So once again I thank the committee and all of you for your support to these LPS activities.

Regards

Jonathan Lean
Dates for Your Diary



Thursday 11th September, Seminar, Geological Society, London, Piccadilly, Gas Storage Technologies. – Cancelled. Plan to re-schedule for later in the year.

Monday 15th September, Evening Talk, Geological Society, London, Piccadilly, 6pm – Geomechanics Beyond the Wellbore, John Fuller, Schlumberger

Monday 20th October, Evening Talk, Geological Society, London, Piccadilly, 6pm – Topic to be confirmed

Monday 17th November, AGM plus talk, Geological Society, London, Piccadilly, 6pm – Norman and Maggie Magowan, Pan American Adventure in aid of Cancer Research U.K.

Monday 15th September Evening Talk Abstract:

Geomechanics Beyond the Wellbore

John Fuller, Schlumberger

Petroleum geomechanics has traditionally focused on the behaviour of rocks at the wellbore. Initially, geomechanical modeling was used to design and predict hydraulic fracture operations using simple stress models and measurement or correlations of mechanical properties. Later, sand production and wellbore stability during drilling were added to the applications. However, it has long been recognized that it is not only the wellbore that can suffer the effects or benefit from a knowledge of geomechanics, but also the reservoir and, in fact, the entire subsurface. Ekofisk became a well known, and costly, example of the effects of reservoir geomechanics. Whilst the Ekofisk problem was pretty obvious, even if the solution wasn't so clear, geomechanics has also been playing havoc in many other fields over the years although not often, if at all, being identified as the guilty party.

This talk will take a look at the geomechanical changes that occur during the life of a reservoir and the effects this can have on overall production and the integrity of a field. The geological structure creating a reservoir requires numerical methods to map the stress state through the field. The complexity of the field structure means that the magnitude of principal stresses are likely to vary constantly across the formations and rarely comply with the idealized vertical and horizontal framework used in conventional wellbore geomechanics. This is especially the case across faults and around salt diapirs, for instance, where stresses can be severely perturbed. In a wellbore using established geomechanical approaches these stress effects on wellbore deformation cannot easily be modeled and are often not even recognized, but may prove to be major hazards to wellbore construction and operation.



LPS Committee 2008-2009

Dear LPS members,

The society through its elected committee represents your wishes and it can only strive through your commitment.

On the 17th of November we hold the AGM and some positions on the committee will be up for election.

Please give consideration as to whether you or one of your colleagues would like to stand for election. The roles require varied amounts of time commitment and hence hopefully we could find something to fit with your 'real job'.

The Past President, an ex-officio member of the Executive Committee, shall be responsible for soliciting nominations for the Executive Committee, for arranging ballots where necessary, for proposing awards, and for practical aspects of changes in bye-laws and policy.

Any genuine LPS member is welcome to run for a post on the committee.

Please free to contact Patrick Crossouard or any member of the committee if you have any questions or suggestions.

Patrick Crossouard LPS Past President

pcrossouard@macdream.net

01825712307



Membership Form 2008

Type of membership: (* delete as appropriate)	* new member	* renewal	* student
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Member Information

Title & First Name:		Surname:	
Company & Address:			
Postcode:		Email:	
Tel:		Job Title:	

Your monthly Newsletter will be sent by email

The information you provide is for the internal use of the Society

Methods of Payment

Payment can be made by cheque or credit card (£25). Cheques should be made payable to "London Petrophysical Society". There is no membership fee due for students, but a completed membership form is required.

Card Types: Visa / Mastercard (only)

Card Number: _____/_____/_____/_____

Expiry Date: _____/_____

Please send this form (enclosing cheque or card details) to:

Assia Belhaouas
Petro-Canada
1 London Bridge
London
SE1 9BG

Do you require a receipt? (* delete as appropriate)	* yes	* no
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If you have any queries on membership please email VP Membership:
assia.belhaouas@petro-canada.com