Dear Members,

Following our highly successful ‘New Technology’ seminar held in January, we have decided to make the presentations available *free* to all who renew their LPS membership (or join!) before 31st March. After your application is submitted, we shall send you instructions on how to download this material, representing the latest in technological innovations from a broad range of service companies. Further information can be found at www.lps.org.uk/membership.

Our Evening Lecture on 2nd February gave an interesting insight into many of the technologies available for formation evaluation behind casing, revealing a surprising amount of petrophysical data that can be acquired after the steel is cemented. Many thanks to Michel Claverie for presenting the physics of measurement alongside several case studies from Africa and the Middle East.

Our next evening session on the 1st March will delve into EOR surveillance, specifically related to CO2 injection. Jonathan Hall is a recognized specialist in formation evaluation, and I look forward to learning from his experiences.

Petrophysics-101 is the topic of our One Day Seminar on 17th March, and we have a great line-up of professional speakers to explain the nature of petrophysical data and teach the terminology for effective communication in your subsurface teams. This should appeal to all disciplines - geologists, reservoir engineers, geophysicists, petrophysicists or anyone needing a refresher course.

Also in this newsletter we introduce Haydn Orme, one recipient of the LPS ‘Iain Hillier Academic Award’. Haydn is studying at Imperial College for an MSci degree in Geophysics, with a budding interest in Petrophysics. It has been a privilege to support an undergraduate such as Haydn during this early stage of her career. The next deadline for bursary applications is the 1st May 2016.

Last but not least, I have included photos of our Executive Committee, so you can put a face to a name when you are chatting with us at our next meeting. I look forward to seeing you there!

Michael O’Keefe

Michael O’Keefe - LPS President
LPS Membership continues to grow strongly, and we are proud to report that as of 18th February 2016, we now have **515 members** !!

- **A Reminder** to download your 2016 Application Forms from our website [www.lps.org.uk/membership](http://www.lps.org.uk/membership) and email to Sharan Dhami (details on left)

- Free downloads of the ‘New Technology’ One Day Seminar (held on 21st January 2016) will be made available for everyone who renews their membership before 31st March.
Iain Hillier Academic Bursary winner presents her work at a major international conference.

Haydn Orme is currently a 3rd year undergraduate at Imperial College (London) studying for an MSci degree in Geophysics. During the summer of 2015 Haydn completed an extracurricular 10-week undergraduate research project entitled “Thrust fault growth within accretionary wedges: new insights from 3D seismic reflection data”, under the supervision of Dr Rebecca Bell.

She used seismic and well log data from the Nankai Trough, southeast Japan, acquired from the Integrated Ocean Discovery Program (Legs 190 and 196). Haydn documented a number of local displacement minima along-strike of faults, suggesting that, the proto-thrust and imbricate thrusts developed from the linkage of smaller, previously isolated fault segments. She also found that the majority of faults grew upward from the décollement, although there is some evidence for downward fault propagation.

Haydn applied for an Iain Hillier Academic Bursary from the LPS to support her attendance of the American Geophysical Union General Meeting 2015 in San Francisco, after her research project was accepted for presentation.

This was a rare and fantastic opportunity for a 2nd-year undergraduate student that the LPS was keen to support, particularly with her growing interest in petrophysical data and interpretation. Haydn comments that “I took part in a poster presentation session and received very positive feedback about my work. With the help of Dr Rebecca Bell, we hope to write this up into two papers. This summer I hope to do some more work on the project but with more of a petrophysical steer in preparation for my MSci project. For this I aim to investigate the possibility of a link between seismic properties and petrophysics”.

Following from this initial taster of petrophysics Haydn states that “within my actual degree course there is little focus on petrophysics. However, presentations from visiting companies and researchers have sparked an interest in the subject for me as the use of well log and core data in combination with high resolution seismic reflection imaging is extremely powerful to understand both the structure and the physical properties of the Earth”. Following completion of her undergraduate degree Haydn is planning to apply for an MSc in Petroleum Geophysics where she can further enhance and integrate the use of petrophysical data types.

The LPS Iain Hillier Academic Award Scheme exists to reward MSc level students on petroleum and earth science courses at English or Welsh universities, who take an interest in logs and/or core petrophysics in their studies (Student Bursaries); and to support specific projects or courses undertaken by postgraduate students or university departments which have log and/or core petrophysics as a key component (Student Grants).

Further details are on the LPS website.
**Evening Lectures - Upcoming**

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**The next LPS Evening Lecture:**

“Planning surveillance operation for CO2-enhanced oil recovery pilots”

Presented by

Jonathan Hall

Formation Evaluation Specialist, ADCO

**Tuesday 1st March 2016**

6:30pm - 7:30pm

The Geological Society, Burlington House, Piccadilly.

Refreshments will be available from 6pm. Wine & Savouries will be provided after the presentation, which we would be delighted for you to join us for.

- **Free Entry** -

Full Abstract and Bio for the event are available online at [www.lps.org.uk/events](http://www.lps.org.uk/events)
One Day Seminar: Petrophysics 101
Thursday 17th March 2016, 9:00am - 5:00pm

What is it about?
A series of presentations by experienced Petrophysicists on formation evaluation measurements and analysis. It will cover the basic principals of Petrophysics; the estimation of reservoir properties such as porosity, hydrocarbon saturation, permeability and net-to-gross ratio. It will incorporate log, core & pressure data; and expose common pitfalls.

It will look at how logs and core can be integrated to provide understanding of the subsurface and be integrated into Geological and Engineering models.

Who should Attend?
Petrophysicists, geologists, reservoir engineers, geophysicists, & technical assistants requiring an introduction or a refresher on formation evaluation.

Why should I attend?
Help you to understand the nature of formation evaluation and the role of the petrophysicist. Explain the vocabulary for effective communication within your asset team.

£150 for delegates
(LPS is not VAT registered)
Students can register for free
Includes lunch and post-seminar wine and savouries.
Doors open at 9am.

Detailed agenda is available online.

Register Now! www.lps.org.uk/events
As an industry in change, Petrophysicists are responsible for making sure we acquire the right data for our projects. But we must also demonstrate that value is added to the project through interpretation of high quality, fit-for-purpose data.

Petrophysics is one of the key inputs linking geology into reserves optimization, and in today’s economic climate with an increasing challenge to find new reserves it is more important than ever to emphasize the value Petrophysics adds to our business.

The SPWLA Board of Directors invites you to join us in Reykjavík, Iceland, June 25-29, 2016 to showcase your recent innovations and discoveries at the 57th Annual Symposium. We solicit papers on all aspects of formation evaluation.

To watch an introduction video, go to www.spwla2016.com/video/2015/08/12/the-video.html
The 2016 Operations Geology Conference will aim to move the professional and technical discussion to a wider audience with a direct call to our industry colleagues from associated disciplines. In addition to our core operations geologists we seek active participation from personnel in subsurface, drilling and engineering to broaden the four main conference themes outlined below.

As key oil industry professionals we need to ask ourselves serious questions during this time of constrained conditions. We should challenge ourselves to work better together by fully integrating with associated disciplines, optimising our processes and enhancing communications. The ultimate aim is to become more cost effective and to deliver better results.

- **State of the Discipline** – Who are we? Demographics, diversity, update on our profession and where we are going in a lower oil price environment. What are our key challenges going forward?

- **Focus on the Wellsite** – Wellsite geology, focus on re-invigorating/updating/more fully exploiting fundamental techniques, use of real-time data, daily work flows and innovative processes.

- **Integrating Teams** – Working better together with wellsite geology, geomechanics, well engineering, biostratigraphy, geochemistry, wireline, petrophysicists, mudlogging and LWD. Improving communications.

- **Working Smarter** – What tools and techniques do we need to ‘work smarter’, more cost effectively and safely?

**Call for oral and poster abstracts:**
Abstracts of up to 300 words and up to three colour figures are requested. Please send abstracts to Laura Griffiths (laura.griffiths@geolsoc.org.uk) before 18 March 2016.
The LPS wish to extend our sincere appreciation to the generous companies who continue to be our Sponsors in 2016!

Sponsors in alphabetical order are:

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- Tullow Oil
- Weatherford Laboratories

The LPS relies heavily upon the financial support of our Sponsors. If you wish to assist our Charity in the education and pursuit of Petrophysics, please contact our Treasurer Ian Draper, details on www.lps.org.uk