



## **NEWSLETTER: June 2008**

### *Message from the LPS President:*

Firstly the committee would like to extend great thanks to Mark Knackstedt of the Australian National University for presenting on “Digital Core Technology” in May. Mark presented the current state-of-play in 3D imaging and visualisation of porous rock material and showed how these models can be used to predict many Petrophysical properties such as porosity, permeability, electrical properties and multiphase properties such as capillary pressure and relative permeability, albeit at a fine scale. This meeting was very well attended and sparked great debate from the audience on the whole subject of imaging and property extraction. I was struck by an analogy to aerodynamics: if core analysis is like an empirical wind tunnel test, then the work Mark presented was the equivalent of computational fluid dynamics (CFD), a technique that has revolutionised that particular discipline. It will be interesting to see how techniques such as those presented by Mark play out over the coming years!

Mark went on to present at the SPWLA Symposium in Edinburgh at the end of May, and I hope he similarly impressed the audience therein. Joanne Tudge, our PhD part sponsored student (along with ConocoPhillips) also gave a poster presentation at the Symposium on her work (presented at the LPS Meeting in April) on “Integrating Geology and Petrophysics to Identify Conductive Clays in a Hydrocarbon Reservoir”. Well done Joanne in extending presentation of your work to a wider audience. A number of other LPS members presented at the Symposium so I’d like to extend an offer; please consider presenting at an LPS meeting at some point in the future also for the benefit of those who could not make it to Edinburgh.

The next LPS event will be the June 26<sup>th</sup> one-day seminar on “The Use of Statistics in Formation Evaluation”. We have finalised an agenda, confirming talks from a number of sources in the oil company, consultancy and academic communities on a wide range of relevant subjects. For more details see below in the newsletter and please consider attending, I’m sure it will be an informative and worthwhile day.

Regards

**Jonathan Lean**



**From VP Newsletter, Adam Moss;**

The agenda for the one day seminar on “The Use of Statistics in Formation Evaluation” at the Geological Society on Thursday 26<sup>th</sup> June has been set and the speakers are all primed for action. See seminar agenda below and registration form is attached to this message. I would encourage you to attend what promises to be a very interesting day.

Congratulations to Mike Lovell for receiving the Distinguished Service Award at the SPWLA symposium in Edinburgh. As a past president and good friend of the LPS I am sure you will all be interested to read the following citation from SPWLA.

**SPWLA DISTINGUISHED SERVICE AWARD -Mike Lovell**

Mike has a BSc degree in Geological Geophysics with Mathematics from Reading University, and an MSc (Marine Geotechnics) and PhD (Physical Properties of Sediments) from the University of Wales. In 1984 he became involved in ocean drilling while at the University of Nottingham; he participated as a downhole logging scientist in the eastern equatorial Pacific and soon after established Borehole Research with Peter Harvey. In 1989, offshore Japan with Philippe Pezard, he used downhole electrical borehole images for the first time in ODP, returning to the University of Leicester where, with the exception of a year in Brazil at the Federal University of Para in Belem, he has remained.

Mike served on the committee of the London Petrophysical Society as Vice President External Relations (1998-1999) prior to being President (1999-2001) and Past President (2001-2003), and was Vice President (Publications) of SPWLA (2002-04) and Editor of *Petrophysics* (2002-03). He has been an SPWLA Distinguished Speaker and a steering committee member for the SPWLA Topical Conference on Thin Beds. He currently chairs the Scientific Technology Panel for the Integrated Ocean Drilling Program and in this role has been closely involved in the development of laboratories and downhole capabilities on the new Japanese riser ship, the *CHIKYU*, the refurbishment of the US non-riser vessel, the *JOIDES Resolution*, and Mission Specific Platforms in the Arctic and Tahiti.

Mike’s research interests are varied, from borehole imaging to gas hydrates, electrical properties to facies based petrophysics. More recently he has returned to acoustics to investigate bio-inspiration in better characterising reservoir rocks. Mike has co-authored 6 edited volumes, more than 80 peer reviewed papers, and 90 conference papers. In addition he is keen on emphasising the importance of linking geology to petrophysical evaluations, and believes that field-based petrophysics teaching can often deliver a better understanding of petrophysical concepts and techniques.

More recently Mike’s interests have extended to petrophysics in the kitchen, utilising petrophysical knowledge and properties to explore the secrets of baking and cooking; indeed he often exchanges recipes and novel ideas with petrophysicists around the globe; after all cooking and baking are really just the tasteful application of petrophysics.... the physics of solids and fluids at varying temperatures and pressures! Indeed, his family frequently comment on how his cooking is often experimental, and rarely follows any predefined recipe! Of course, as with all petrophysical estimates, not everyone is always in complete agreement with the results.



London Petrophysical Society  
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A Chapter of SPWLA

**Dates for Your Diary**

**Thursday 26<sup>th</sup> June, One Day Seminar – “Use of Statistics in Formation Evaluation”.  
Burlington House.**

**Monday 21st July, Evening Talk, 6pm – To be arranged.**



London Petrophysical Society  
Registered Charity Number 1020083  
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London Petrophysical Society  
One-day Seminar  
"The Use of Statistics in  
Formation Evaluation"

Thursday 26th June 2008 at the Geological  
Society, London

**A series of talks and discussions on the use of statistics to provide  
enhanced formation evaluation.**

Time	Speaker	Title	Company
9.30	Adam Moss	Welcome and Introduction	BG Group
9.40	Dick Woodhouse	Correlation of Logs (60cm Resolution) with Core Plugs (3cm Resolution)	Consultant
10.05	Craig Lindsey	Effective Sample Selection for Improved SCAL	Helix-RDS
10.30	Jonathan Hall	Lumping and Splitting: Choosing Zonal Petrophysical Parameters with Small Sample Data Sets	Senergy
10.55	<b>COFFEE BREAK</b>		
11.20	Peter Fitch	Use of Statistics in Quantifying Heterogeneity	Leicester Uni.
11.45	Alan Johnson	Is Ø/K OK?	Shell
12.10	Clive Sirju	Permeability Upscaling (Core to Welltest)	BG Group
12.35	<b>LUNCH</b>		
13.30	Alessandro Castoro	Create Highly Detailed Petrophysical Reservoir Models and Capture Uncertainty using Geostatistical Inversion Technology	Fugro Jason
13.55	John Bennett	Keeping Geo-Modellers Honest	Perenco
14.20	Joanne Tudge	Lithostratigraphic Characterisation of Subducting Sediments from LWD Data Using Multivariate Analysis	Leicester Uni.
14.45	<b>TEA</b>		
15.10	Stephen Ehigie	Practical Ideas for Evaluating Uncertainty in Petrophysical Properties for Volumetric Calculations	RPS
15.35	Simon Stromberg	Petrophysical Uncertainty - Who Cares	Hess
16.00	Panel Discussion		
16.30	<b>Wine and Savouries</b>		

**Registration Cost:**

**£150 for LPS/PESGB/AFES/SPE Members**

**£175 for Non-members (LPS is not VAT registered)**

For further information visit: <http://www.lps.org.uk>  
or e-mail [adam.moss@bg-group.com](mailto:adam.moss@bg-group.com)



## Membership Form 2008

<b>Type of membership:</b> (* delete as appropriate )	<b>* new member</b>	<b>* renewal</b>	<b>* student</b>
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### Member Information

<b>Title &amp; First Name:</b>		<b>Surname:</b>	
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**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: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

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

Assia Belhaouas  
Petro-Canada  
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London  
SE1 9BG

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