



NEWSLETTER: MAY 2008

Message from the LPS President:

April saw a very well attended LPS Evening Meeting at Burlington House, where our LPS part-sponsored (along with Conoco-Phillips) student from Leicester University, Joanne Tudge, gave a great presentation on her PhD research into issues surrounding the presence of conductive clays in hydrocarbon reservoirs. She also presented her experiences in her time away from Leicester contributing the Ocean Drilling Programme (ODP) which has taken her from offshore survival training in Japan to life on board the recently commissioned drill ship Chikyu and on to geological field trips on Svalbard, dodging polar bears while examining some fantastic looking outcrops (and all at no cost to the LPS I'm sure you will be glad to learn!).

The problems of clay conductivity and its consequences in the identification of "low resistivity pay" is, I'm sure, familiar to many petrophysicists but linking it to clay type, volume and habit using real logs and cores is very useful and Joanne's approach engendered a good level of debate after the presentation and which continued on during wine and nibbles! It was also good to see other students from Leicester on the evening too.

Work is also well in progress in organising the next LPS seminar, scheduled for 26th June at Burlington House and tentatively entitled "The Use of Statistics in Formation Evaluation". We already have talks confirmed from a number of sources in the oil company, consultancy and academic communities on a wide range of subjects. *For more details see further down the newsletter.*

Lastly, to all those travelling up to Edinburgh for the SPWLA Symposium at the end of the month, I hope you all have an enjoyable and worthwhile time North of the border. Unfortunately I can't make it due to a mixture of work and domestic pressures so I bid you all *Bon Voyage!*

Regards

Jonathan Lean



From VP Newsletter, Adam Moss;

We have a program of ten talks confirmed for the one day seminar on “The Use of Statistics in Formation Evaluation” at the Geological Society on Thursday 26th June. Many thanks to the following for offers of talks for the seminar:

BG Group, Fugro-Jason, Helix-RDS, Hess Ltd, Independent Petrophysical Consultant, Leicester University, RPS Energy, Senergy-PGL, Senergy.

A seminar registration form is attached to this message.

A big thank-you to Centrica, Fugro-Jason, Hess, Senergy, ResLab UK, Halliburton, Tullow, Weatherford-Reeves, BG Group, RWE-DEA, Schlumberger and BP for sponsoring the LPS in 2008. If your company would like to sponsor the LPS please contact Mike Millar (mike.millar@petro-canada.com)

Dates for Your Diary

Monday 19th May, 6pm, Evening Talk – Mark Knackstedt, ANU, “Digital Core Technology”. Burlington House.

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



Monday 19th May, 6pm, Evening Talk, Burlington House.

Digital Core Technology

Mark Knackstedt - ANU

Abstract:

Digital core technology, 3D imaging and visualisation of core material at the pore scale and subsequent analysis of petrophysical and multiphase flow properties can give important insight to understanding properties of reservoir core material. Historically, digital core technology has focused on the direct comparison of predictions with data collected from conventional core analysis. Results show that predictions of petrophysical and multiphase properties from 3D image data (permeability tensor, formation factor, resistivity index, relative permeability and drainage capillary pressure) are in good agreement with experimental core measurements. Here we discuss some of the potential applications of this emerging technology to the industry via case study examples including:

- Understanding reasons for scatter in petrophysical data in terms of rock type, pore structure and interconnectivity.
- Probing uncertainty in relative permeability data. Imaging and modeling of fluid distributions at the pore scale including the incorporation of different wettability scenarios.
- Direct imaging of reservoir compaction effects on porosity, permeability and pore structure.

Biography:

Mark Knackstedt was awarded a BSc in 1985 from Columbia University and a PhD in Chemical Engineering from Rice University in 1990. He is Professor and Head of the Department of Applied Mathematics at the Australian National University and a Visiting Professor at the School of Petroleum Engineering at the University of NSW. His primary focus is on development of 3D tomographic imaging analysis methods and modeling transport elastic and multiphase flow properties of complex materials. He leads the Digital Core Consortium Program. The consortium members include ExxonMobil, Chevron, BP, Shell, Total, Saudi Aramco, Schlumberger, Baker Hughes, BHP Billiton, Japan Oil and Gas, ADCO, ONGC (India) and Maersk Oil and Gas.



London Petrophysical Society
Registered Charity Number 1020083
A Chapter of SPWLA

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.**

Presentations by:

**BG Group, Fugro-Jason, Helix-RDS, Hess Ltd,
Independent Petrophysical Consultant, Leicester
University, RPS Energy, Senergy-PGL, Senergy.**

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



Membership Form 2008

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Your monthly Newsletter will be sent by email

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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.

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If you have any queries on membership please email VP Membership:
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