



## **NEWSLETTER: July 2011**

### ***Message from the LPS President:***

I must thank everyone who participated in our recent Pore Pressure and Wellbore Stability seminar. Feedback from some of the 90 people who attended indicated that this was one of our best seminars for a long time. The quality of the presentations was excellent and they managed to stimulate some good debate. We are collecting permission from each of the speakers to distribute copies of the presentations to all who attended. Once we have these we will upload the talks to the LPS website and send out a link and password to all attendees.

The next evening talk will be on Monday 11<sup>th</sup> July, at 6.30pm. Simon Stromberg from Senergy will be talking about 'Uncertainty and Monte-Carlo simulations in Petrophysics'. Simon is a great supporter of the LPS and a very entertaining speaker. The talk is free and all are welcome, members and non-members.

Note that we do not have an evening talk in August. We reconvene on the 5th September with a presentation from Peter Fitch at Imperial College on his recent research.

The next one day seminar will be on Thursday 15<sup>th</sup> September and is another in our Basic Formation Evaluation series. The Basic FE seminars are aimed at 'new' and non-petrophysicists. We are designing a program of talks to cover capillary pressure theory, introduce some of the more popular models and present recent case studies. See this newsletter for a poster with more information. The 2009 version of this seminar was very popular so early registration is advised. A registration form is attached to this newsletter, please send to Peter Fitch, [p.fitch@imperial.ac.uk](mailto:p.fitch@imperial.ac.uk).

Hope to see you soon at one of our events.

All the Best

Adam

**Adam Moss: LPS President**



## Dates for Your Diary

**Monday 11<sup>th</sup> July 2011, LPS Evening Meeting, Geological Society, London, Piccadilly. 6.30pm.**

Simon Stromberg, Senergy.

"Uncertainty and Monte Carlo simulations in Petrophysics".

**Monday 5<sup>th</sup> September 2011, LPS Evening Meeting, Geological Society, London Piccadilly. 6.30pm.**

Peter Fitch, Imperial College.

**Thursday 15<sup>th</sup> September 2011, LPS One-Day Seminar, Geological Society, London Piccadilly.**

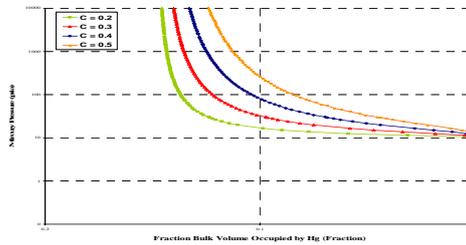
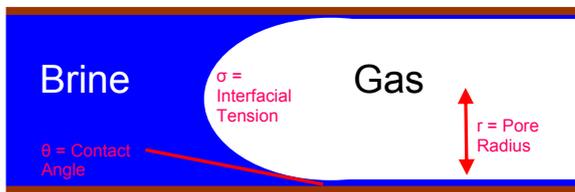
Basic Formation Evaluation: Capillary Pressure and Saturation Height Functions.

## Uncertainty and Monte Carlo simulations in Petrophysics

**Simon Stromberg, Senergy.**

Increasingly, reduced petrophysical data sets are being used to make critical decisions about the location of deepwater exploration wells. In addition, while drilling deepwater wells, reduced data sets are being used to make well design and completion decisions that may impact the safe operation of the well. However, despite numerous examples in the literature of how data is used to make decisions, very little attention has been given to reliability of the data and its impact on uncertainty, diagnosis, and risk. This presentation will act as a catalyst for starting a discussion on the impact of data reliability on risk assessment. The talk will cover the fundamental principles of uncertainty risk and the impact of data reliability on decision making. Two examples will be used to illustrate the issues. The first will look at risking of exploration wells using AVO response that has low/marginal reliability. The second example will be the risk analysis of a published paper: 'Detecting Shallow Drilling Hazard in Large Boreholes Using LWD Acoustics'. This paper avoided the issue of data reliability. The potential impact of not considering data reliability will be explored and discussed with the group.

Simon Stromberg is the Global Technical Head of Petrophysics for Senergy. Previously he has worked for Hess, Shell, Petroleum Directorate Oman and various consultancy companies. He has a strong background in field development planning, having previously acted as a project manager for pre-development of West of Shetland Fields. Simon is an Associate Editor for the SPE Journal of Reservoir Engineering and Evaluation. He has a passionate interest in unusual petrophysical problems, uncertainty, risk analysis and value of information.



London Petrophysical Society  
A Formation Evaluation One-day Seminar

## “Fluids in the Reservoir: Understanding Capillary Pressure and Saturation Height Functions”

Thursday 15<sup>th</sup> September at the Geological Society,  
London

Presentations On:

**Capillary Pressure Theory**  
**Lab Measurements of Capillary Pressure**  
**Saturation Height Function Models**  
**Free Water Levels and Contact Location**  
**Wettability**  
**Saturation Height Function Case Studies**

**Confirmed speakers from:**  
**Baker RDS, BG Group, CoreLab, Senenergy, & University of  
Leicester (with more TBC shortly)**

**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 Peter Fitch:** [p.fitch@imperial.ac.uk](mailto:p.fitch@imperial.ac.uk)