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Upcoming Events

**Tuesday 24th
January 2017**

9:00am - 5.00pm

“New Technology”

One Day Seminar

Monday 27th

February 2017

6:30pm—7:30pm

“Advanced Fractal

Modelling of

Heterogeneous and

Anisotropic

Reservoirs.”

Paul Glover,

University of Leeds

Evening Lecture

Tuesday 4th

April 2017

6:30pm-7:30pm

“Looking ahead of the

bit while drilling: from
vision to reality”

Monica Vik

Constable, Statoil

Evening Lecture

Message from the President

Dear Members, and Friends of the LPS;

Happy New Year! I fully believe that 2017 promises better times for our oil and gas business. There is no denying that our industry has fundamentally changed after two years of very low oil prices - with an enormous number of cancelled projects, the loss of so many talented colleagues, and a strict focus on cost reduction across the board. The carnage has been of a magnitude never experienced before! But the indications are for a positive uptick this year. And WE as primary stakeholders in Formation Evaluation have a critical role to play in our new landscape. Standing firm on technical objectives with management, passing the baton of experience onto the next crew through mentoring young professionals and students, educating the public on environmental concerns, and utilizing the advantage of new technology to describe our formations with increased relevance. All of this has a direct and measurable impact.

To achieve these goals, on Tuesday 24th Jan the LPS is unique in offering a full One-Day Seminar on New Technology from a wide range of companies, all without charging an entrance fee! There is a substantial program with 16 speakers covering Mud logging, LWD, Core, Wireline, and Conveyance. The Agenda is shared on the following pages, with full Abstracts available on our website.

To re-focus our Society as the centre of technical expertise, I am introducing a series of petrophysical articles to be published each month in this Newsletter. We start with an inspired article from a renowned industry figure - Ross Crain. If you wish to contribute, please contact Carole Reynaud, VP Publications.

Last but not least, please submit your 2017 membership form through our website at www.lps.co.uk/membership. We have introduced new options to honour those who are retired, and those who label themselves as 'Independent'. Membership is free for the LPS, however I do also encourage you to sign up to SPWLA, our parent Society. Looking forward to seeing you all at our meetings!

Best Regards,

Michael O'Keefe

Michael O'Keefe - LPS President

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Mon 27th Feb Advanced Fractal Modelling of Heterogeneous and Anisotropic Reservoirs

Paul Glover,
University of Leeds

Tues 4th Apr Looking ahead of the bit while drilling: from vision to reality

Monica Vik Constable, Statoil

Weds 10th May Error calculation and use of first order error propagation as an integral part of petrophysical evaluation

Stein Ottar Stalheim, Statoil

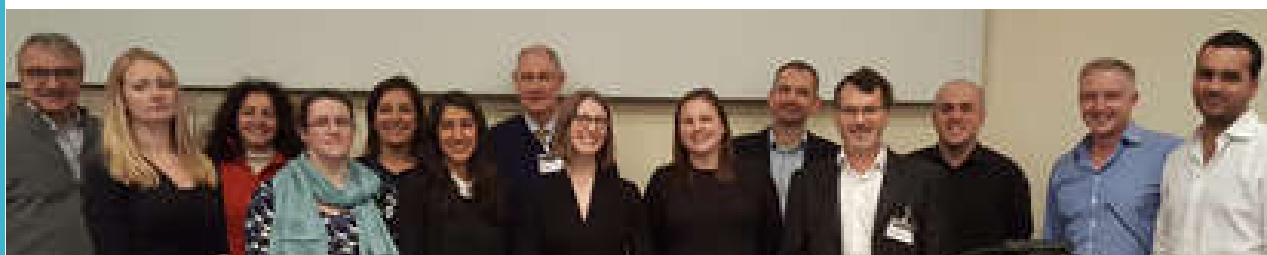
2017 New Technology Seminar Tues 24th Jan

The seminar will consist of a series of themed talks on new technology, each lasting around 20 minutes with five minutes for questions. There will be talks detailing the new technologies currently, or soon to be available on the market, and themes include MWD, LWD, mud logging, wireline, surveillance, coring, core analysis, or any other petrophysical technology.

The seminar is intended to raise awareness of new technologies, as well as significant improvements to existing technology, and may include new logging tools, new software, new methods of analysing or interpreting data, and anything else that comes under the umbrella of new technology.

There is **No Need to Register**. Just turn up at 9am on Tuesday 24th Jan.

Lunch and refreshments will be provided on the day.



One Day Seminar: New Technology 2017

Tuesday 24th January 2017, 9am-5pm

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	Speaker	Company	Talk Title	Theme
	Registration			
Intro	09:00 - 09:25	Michael O'Keefe	LPS	Welcome
1	09:25 - 09:35	Gionata Ferroni	Geolog	Describing the reservoir from surface, while drilling: an integrated approach to surface logging
2	09:35 - 09:55	Mark Herkommer	ExLog	Repurposed Medical Fluorometers Provide a Fast and Low-Cost Means to Quantify Oil Shows at the Wellsite
3	09:55 - 10:15	Jon Skillings	Baker Hughes	Geospatial Navigation & Analysis –extra deep real-time measurements allow mitigation of pilot holes in areas of seismic uncertainty and allow mapping of reservoir architecture to optimise well-placement & well-bore recovery
4	10:15 - 10:35	Grant Affleck	Weatherford	Joint development of 200C Triple Combo LWD tools
5	10:35 - 10:55	Arthur Walmesley	Halliburton	XBAT LWD Sonic Development and Applications
6	10:55 - 11:15	BREAK		
7	11:15 - 11:45	Tanguy Lhomme	EPSLOG	Maximizing the value of core analysis programs: innovative solutions to test cores fresh out of the barrel
8	11:45 - 12:05	Bruce Askew	NOV Coring	Recorded and real time coring instrumentation
9	12:05 - 12:25	Alf Berle	CoreAll	Measurement while coring
10	12:25 - 12:45	LUNCH		
11	12:45 - 13:45	Craig Lindsay	Core Specialist Services / HYDROPHILIC	Wherefore art thou Free Water Level? Introducing the HYDROPHILIC probe
12	13:45 - 14:05	Gavin Sibbald	Baker Hughes	Efficient Pressure Testing with Full Combinability
13	14:05 - 14:25	Bob Engleman	Halliburton	High Quality Formation Pressure Gradients utilising New Data Acquisition and Analysis Techniques
14	14:25 - 14:45	Remke Ellis	TGT Oil	Spectral Noise – High Definition (SNL-HD) for characterising dynamic reservoir conditions
15	14:45 - 15:05	Edurne Elguezabal	Resman	A new approach to well completion design, surveillance and modelling
16	15:05 - 15:25	BREAK		
17	15:25 - 16:00	Guy Wheeler	Gaia Earth Sciences	Benchmarking wireline sticking risk during sampling operations
18	16:00 - 16:20	Martin Leonard	Petromac	Petromac Conveyance System for Wireline Logging – A Paradigm Change for the Industry
19	16:20 - 16:40	Serko Sarian	Schlumberger	MaxPull High-Pull Wireline Conveyance System: Expanding wireline conveyance to all well profiles and environments while reducing risk
20	16:40 - 17:00	Discussion and Closing Remarks		
21	17:00 onwards	Wine & Savouries		

This Seminar is Free to attend!

No registration required.

Includes lunch and post-seminar wine and savories.

www.lps.org.uk/events/2017-nt

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Author: E. R. (Ross) Crain, P.Eng, Calgary, Alberta, Canada

Well logging was only 35 and the word *Petrophysics* was only 12 years old when I started logging in 1962. Much has changed over the years and vast quantities of data have been amassed. It is useful to assess how all that data has been used and abused, and how we can do a better job with it.

We use the term *Integrated Petrophysics* to suggest that we do not merely perform log analysis, in isolation, but also integrate core analysis, geochemical, XRD, XRF, and a host of other geoscience and engineering data along with the well logs. I did my first integrated project in 1973, showing core porosity and permeability on top of Saraband computer-aided log analysis depth plots. People were amazed, although I sincerely doubt I was the first ever to do this. I still see results today from clients who have not done even this simple task to compare their diverse data sets.

Why not? We have only ourselves to blame. Unless we can convince management to both acquire and also use the data needed to perform this level of professional analysis, we will continue to wave our arms in a wilderness of unknowns.

Good detectives would take the time to gather all the evidence, assess it, test it, discard the meaningless, reconcile the discrepancies, and then come to a conclusion that is both defensible and as close to the truth as possible. Good petrophysics is an evidence based business and our skill is aided by a careful assessment of the facts. Sir Arthur Cona Doyle wrote in his Sherlock Holmes novels “Eliminate the impossible: whatever remains, however improbable, is the solution” (or words to that effect). If we honour this tradition, we will do a better job.

But we do need to gather as much evidence as is helpful. This will vary with the project – there is no simple checklist. If we don’t know what is needed, we must learn from others. Learning is work, and the exigencies of our day-time job may not leave much time for the research and discussion required to get up to speed. This is especially true of the people who expect us to perform the miracle of petrophysical analysis – we have to educate management and other disciplines on the team to our data needs. We don’t want just tools like adequate software; we need ground truth to calibrate the numerical results, and to help eliminate spurious evidence.

We have been gathering petrophysical data around the world for 90 years. That’s Big Data. So far, we have not used it well, leaving it to moulder in dusty file cabinets, damp warehouses, and cold data vaults, never to be looked at again. Google, Facebook, and Amazon have taught us what can be done with Big Data – make money. It’s time to start doing the same data-mining operations as they do. There is “gold in them thar hills” - ,called Bypassed Pay, Shale Gas, or Shale Oil. The cheapest oil and gas you will ever find is already in your well files. Put your detective skills to work and find it.

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I have yet to see a VP Petrophysics or a CPO (Chief Petrophysical Officer).

We are uniquely positioned for the task of integrating all the geoscience and engineering data, just as the CFO assimilates and understands all the financial data. We know enough physics and chemistry; we have a good background in geology, geophysics, reservoir engineering, stimulation design, reservoir simulation, and production to assume this role. Big Data coupled with logical detective traits will change the way we do our work, and cause a cosmic shift in how companies manage



ABOUT THE AUTHOR

E. R. (Ross) Crain, P.Eng. is a retired Consulting Petrophysicist and Professional Engineer, with over 50 years of experience in reservoir description, petrophysical analysis, and management. He is a specialist in the integration of well log analysis and petrophysics with geophysical, geological, engineering, stimulation, and simulation phases of the oil and gas industry, with wide-



2017 LPS Membership Form

Fill out the below form, then scan & email to VP Membership, Sharan Dhama (sharan.dhama15@imperial.ac.uk). Alternatively download the online form at <https://lps.org.uk/membership>

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The London Petrophysical Society

UK Registered Charity #1020083

A Chapter of SPWLA

Membership Form 2017

Membership of the London Petrophysical Society is free of charge in 2017. However we do require a completed registration form for each member, submitted by 31st January each year.

Type of membership (* delete as appropriate)	Retired / Professional / Student	Year first joined LPS: _____
Member of SPWLA	Yes / No	LPS Membership # _____

Title & First Name:		Surname:	
Company:	*If no Company put 'Independent'		
Job Title:			
Contact Address:			
City / County:		Postcode:	
Phone:		Email:	

The information you provide is for the internal use of the London Petrophysical Society. By entering your details and submitting this form you consent to being added to the mailing list of the LPS. No details will be redistributed to any other organizations, companies or individuals.



Corporate Sponsorship - A request for Support!

Since 1973 the London Petrophysical Society has been at the forefront of disseminating technical expertise in formation evaluation for the upstream oil & gas industry in the UK.

We have been fortunate in receiving the support and sponsorship from many respected companies. This funding enables the Society to promote for the public benefit, education and knowledge the scientific and technical aspects of formation evaluation.

The LPS is a registered charity (#1020083), and as such we rely on financial donations to continue our mission. We do this through a series of one day technical seminars, evening technical presentations, and direct engagement with Universities.

Furthermore, the LPS provides significant financial support to students and universities in the form of Bursaries and Grants. We have managed to award more than £8500 to students during 2016 despite the industry downturn and tough economic climate. This has helped bring talented students into the industry. And we rely on our sponsors to provide a significant element to the funding for these activities.

In previous years we have offered a single level of sponsorship at £750 per year. Now, for the first time we are adding the option to include the benefit of complimentary places for employees of a sponsoring company at our hugely popular seminars.

Type	Price	Logo on LPS website	Advert in monthly newsletter	Complimentary places on LPS seminars during 2016
Standard	£750	Yes	Yes	N/A
a	£1,750	Yes	Yes	10
b	£3,000	Yes	Yes	20
c	£5,000	Yes	Yes	Unlimited

To be a select contributor to this program, then please contact the LPS Treasurer - Ian Draper.

www.lps.org.uk/student-and-university-support

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The LPS wish to extend our sincere appreciation to the generous companies who continue to be our Sponsors.

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Sponsor Corporate links (in alphabetical order) are:

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- Oilfield Production Consultants (OPC) www.opc.co.uk
- Schlumberger www.slb.com
- Shell www.shell.com