



Société pour l'Avancement de l'Interprétation des Diagraphies
Section française de la SPWLA "Society of Petrophysicists and Well Log Analysts"

REUNION TECHNIQUE de la S.A.I.D.

S.A.I.D. TECHNICAL SESSION :

Mardi 28 Mars 2017 : 13h30-17h30

Salle Ver Straelen, SGF

77 Rue Claude Bernard, 75005

(Plan d'accès/ Access map au verso) ; Abstracts on pages 3 & 4

Inscription obligatoire/ Mandatory registration by email to :

president@la-said.org

Possibility to follow the meeting via a Web Lync through the same registration .
Specify your name, company, job, email and telephone to get an invitation.

THEME/SUBJECT : Dynamic Reservoir Evaluation

13:30 – 14:00 Welcome/HSE , Open discussion between participants

14:00 – 14:30 Introduction and Discussion on the new SPWLA Charter,
Jacques Delalex, President et Emmanuel Caroli, Vice-President of S.A.I.D chapter

Technical Session :

1- 14:30 – 15:00 : Carrying formation testing results into 3-D

Richard JACKSON, WLH Technical Director - Reservoir Engineering & Management, based in Paris.

2- 15:00 – 15:30 : Panorama of the DRP (Digital Rock Physics) method in the estimation of capillary pressures and relative permeability curves

Roland LENORMAND, CYDAREX Manager, Rueil-Malmaison;

3- 15:30 – 16:00 : Contribution of DRP to the characterization of wettability and SCAL properties

Hélène BERTHET , Reservoir Engineer & Micro-tomograph specialist, TOTAL Pau

16:00 – 16:30 : Coffee Break

4- 16:30 – 17:00 : Pore scale imaging and In-situ coreflood experimentation as a tool to access relevant petrophysical properties

Souhail YOUSSEF, Senior research scientist and HTE Project leader, IFP-EN, Rueil-Malmaison

5- 17:00 – 17:30 Estimating in-situ relative permeability and capillary pressure through joint inversion of array resistivity and formation test data

Lin LIANG, Program Manager, Multi-Physics Modeling & Inversion, Schlumberger SDR, Boston, USA (*Presentation via Web Lync*)

Location of the meeting :
Salle Ver Straelen, SGF ,
Société Géologique de France
Maison de la Géologie
77 Rue Claude Bernard, 75005 PARIS

Pour entrer, appuyer simplement sur le bouton et pousser la porte (Ne pas composer de code) ; Bâtiment au fond de l'allée, salle à droite au RDC.
To enter, just push the button and push the door ; Do not type any code ;
Room on the right as you enter the building .

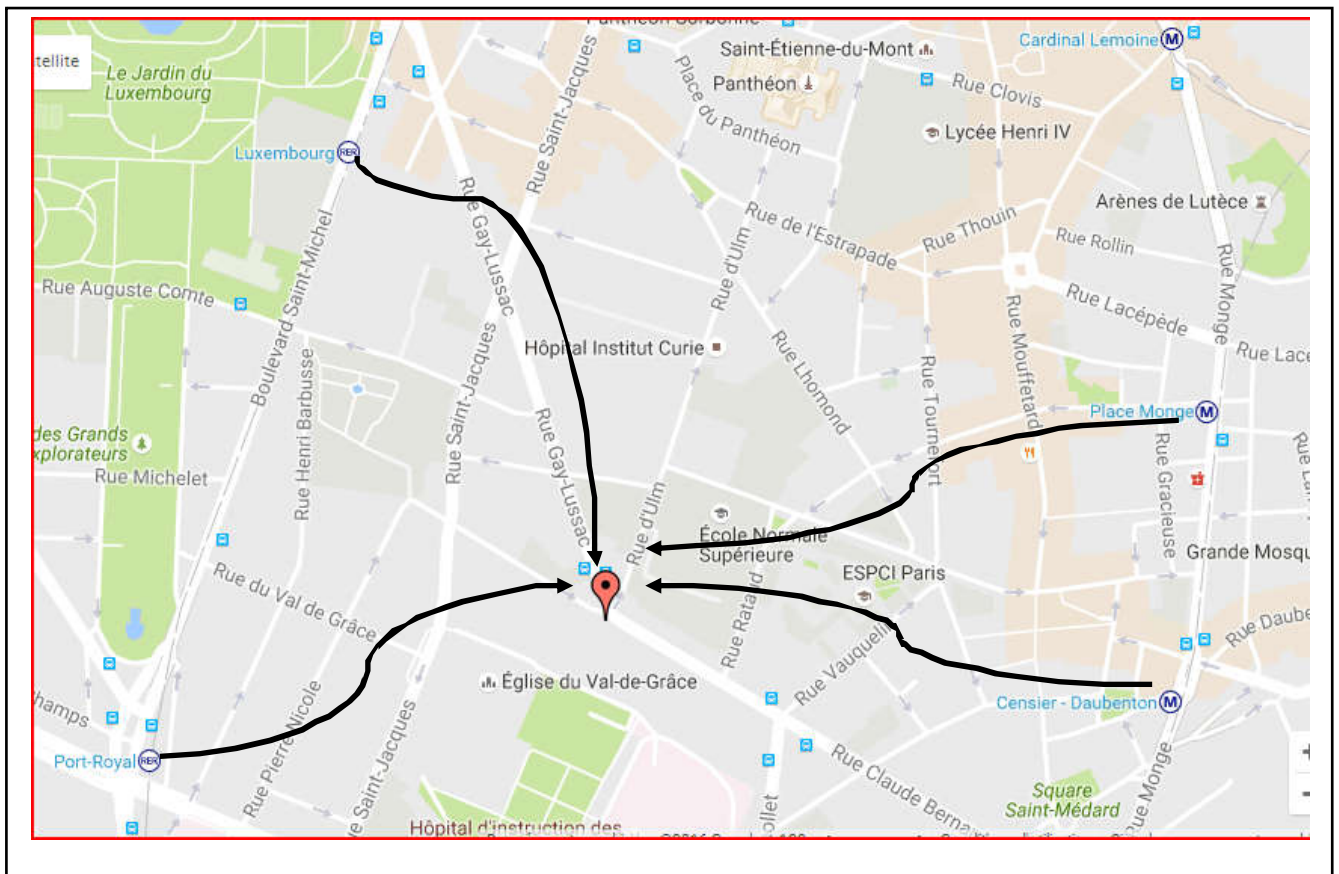
Plan d'accès/ Access map :

A partir du RER-B Station Luxembourg , via Rue Gay-Lussac

A partir du RER-B Station Port Royal via Rue St Jacques

A partir des métros Censier-Dobanton ou Place Monge (Ligne 7 La Courneuve- mairie- d'Ivry)

Egalement par Bus RATP .(Val de Grâce ou Luxembourg)



ABSTRACTS

- ***Carrying formation testing results into 3-D***, Cosan Ayan, Schlumberger WLH
Reservoir Eng & Management Tech Director

Formation Testing is a widely applied cost-effective formation evaluation technique, covering pressure and mobility surveys, sampling, downhole fluid analysis, pressure transient testing and in-situ stress testing. Modern data acquisition tools and analysis techniques now extend the applications to reservoir characterization, including reservoir connectivity analysis, fluid gradients, property population and integrated stress analysis.

Despite advances in software technology, most analysis is still based on single station and single well data. Multi-well and time lapse analysis are not easy, and the value of the data is not often fully recognized. In a new approach, we effectively carry the analysis results of multi-well formation testing data into a 3D reservoir characterization platform. With this approach, analysis and visualization of compartments, possible faults, fluid complexities and model consistency checks are now possible. This enables faster data flow and better recognition of the value of the data for reservoir modeling and simulation.

- ***Estimating in-situ relative permeability and capillary pressure through joint inversion of array resistivity and formation test data***, Lin Liang, Program Manager: Multi-Physics Modeling & Inversion Schlumberger SDR

Relative permeability and capillary pressure are essential input for reservoir modeling that is a key element for production optimization and reservoir management.

Traditionally, these parameters can only be acquired through special core analysis under controlled conditions in the laboratory which is costly and time consuming. In this presentation we present an integrated approach and workflow for estimating in-situ relative permeability and capillary pressure through joint inversion of wireline array resistivity measurements and formation test data combining reservoir model with an electromagnetic model to simulate mud-filtrate invasion processes and other tool responses. The proposed method enables efficient and simultaneous estimation of reservoir parameters under reservoir conditions and at a much larger scale that is suitable for input to reservoir simulation.

About the speakers

Richard JACKSON is currently WLH Technical Director - Reservoir Engineering & Management, based in Paris.

Previously he was Reservoir Engineering Advisor and WL Reservoir Domain Champion for Sub-Saharan Africa (SSA), and prior to that for India, Bangladesh and Sri Lanka (INM), and before for Nigeria and the Gulf of Guinea (NGA).

rjackson@slb.com

Roland LENORMAND is manager of CYDAREX, based in Rueil-Malmaison, 92

Roland LENORMAND

About the speaker:

roland.lenormand@cydarex.fr

<http://www.cydarex.fr>

CYDAREX is a spin-off company of the French Institute of Petroleum (now IFPEN) and was created in 2005 by Roland Lenormand. CYDAREX specializes in the domain of core and cuttings analysis, and provides consulting and training services, commercializes the SCAL devices DarcyPress™ and DarcyLog™, and develops the software CYDAR™.

Hélène BERTHET is a Reservoir engineer & Micro-tomograph specialist based in TOTAL Pau.

helene.berthet@total.com

Souhail YOUSSEF is Senior research scientist and HTE Project leader at IFPEN, Rueil-Malmaison

Souhail.youssef@ifpen.fr

Lin LIANG is a principal research scientist and program manager on multiphysics modeling & inversion at Schlumberger-Doll Research based in Cambridge, MA, USA. lliang@slb.com

Lin is working on joint inversion and interpretation of multiphysics, multi-scale measurements with applications to formation evaluation and reservoir characterization problems for the oil and gas industry. Lin has a PhD in Environmental Science from Peking University and graduated in 2002.