



**QATAR CHAPTER**



**SPWLA Qatar Chapter Virtual Event**  
**28<sup>th</sup> September 2020**  
**12:00-1300**

**Guest Speaker**  
**Khaled Sassi**  
Domain Expert Formation  
Evaluation, Schlumberger

***“NMR Evolution for Fluid Typing  
Solution in Complex Carbonates”***

**Zoom Meeting ID: 838 6848 1667**  
**Meeting Passcode: 646041**  
**Registration Required**



*Society of Petrophysicists and Well Log Analysts*

*Qatar Chapter*

c/o North Oil Compan

P.O. Box 21264, Doha, Qatar; Phone +974 4401 3759



## Virtual Technical Talk

### BOARD OF DIRECTORS 2019-2020

**PRESIDENT**  
SHARON FINLAY  
NORTH OIL COMPANY  
PHONE: +974 5587 4387  
EMAIL: SHARON.FINLAY@NOC.QA

**VICE PRESIDENT**  
ASHOK SRIVASTAVA  
QATAR PETROLEUM  
PHONE: +974 5553 7936  
EMAIL: A\_SRIVASTAVA@QP.COM.QA

**SECRETARY**  
JOSE MURTA DE OLIVEIRA NETO  
QATAR SHELL  
PHONE: +974 5048 6139  
EMAIL: JOSE.OLIVEIRANETO@SHELL.COM

**IT COORDINATOR**  
FAISAL ABDULRAHMAN AL-MUTAWA  
QATARGAS  
PHONE: +974 7755 4477  
EMAIL: FALMUTAWA@QATARGAS.COM.QA

**SOCIAL MEDIA COORDINATOR**  
HUSSEIN JICHI  
BAKER HUGHES, A GE COMPANY  
PHONE: +974 5553 7936  
EMAIL: HUSSEIN.JICHI@BHGE.COM

**BOARD MEMBER**  
ALI ZWALI  
HALLIBURTON  
PHONE: +974 3315 0793  
EMAIL: ALI.ZWALI@HALLIBURTON.COM

**BOARD MEMBER**  
ENRIQUE DIAZ  
BAKER HUGHES, A GE COMPANY  
PHONE: +974 6672 8416  
EMAIL: ENRIQUE.DIAZ@BHGE.COM

**BOARD MEMBER**  
MAURO VIANDANTE  
SCHLUMBERGER  
PHONE: +974 3309 2863  
EMAIL: MVIANDANTE@SLB.COM

**BOARD MEMBER**  
KHALED SASSI  
SCHLUMBERGER  
PHONE: +974 5052 3020  
EMAIL: KHADJ-SASSI@SLB.COM

**BOARD MEMBER**  
MOHAMED FADLELMULA  
TEXAS A&M UNIVERSITY AT QATAR  
PHONE: +974 3379 6287  
MOHAMED.FADLELMULA@QATAR.TAMU.EDU

The SPWLA – Qatar Chapter cordially invites you to a technical talk

**Date:** 28th September 2020  
**Time:** 12 – 1pm Qatar Time  
**Venue:** Zoom Virtual Meeting  
**Details**  
**Zoom Meeting ID:** 838 6848 1667  
**Meeting Passcode:** 646041

**Presenter:** Khaled Sassi – Domain Expert Formation Evaluation, Schlumberger  
**Topic:** NMR Evolution for Fluid Typing Solution in Complex Carbonates

NMR measures the hydrogen index, transverse, longitudinal relaxation times and diffusion coefficient of formation fluids. This presentation will review the evolution of the NMR fluid typing technologies, from porosity partitioning to Gas, light oil, tar & gas hydrate identification and T1/T2-Diffusion & T1-T2 fluid mapping for various fluids.

A new generation of the continuous T1 and T2 measurements will be detailed during the presentation. The new measurements allow a wide range of T1 and T2 components (short and long) to deliver high accuracy and precision in low porosity as well as conventional carbonate rocks, while maintaining high efficiency logging speed. T1 and T2 are exploited for enhanced fluid typing in wide range of porosity systems taking advantage of the shortest echo spacing and new pulsing sequence.

A new data analytics workflow will be introduced for the fluid partitioning interpretation considering a blind source separation decomposition, making the solution more reliable and less end-user dependent. Couple of examples will be presented mainly related to tight and complex carbonates.

### Biography:

Khaled Sassi is currently the Domain Expert of Formation Evaluation portfolio in Schlumberger Reservoir Performance Division, covering the Middle East region, and is based in Qatar. He received his Master of Science from Paris School of Mines (in France) in 2004 and his PhD from Ecole Polytechnique (France) in 2007. He joined Schlumberger R&D late 2007 based in Dhahran, Saudi Arabia where he spent 6+ years leading new technology development mainly related to formation evaluation and deep reading for carbonates and unconventional, in addition for being the project lead for the key collaborative projects. Before Qatar, Khaled was holding the same Technical Formation Evaluation Expert position in Kuwait for couple of years. Prior to that, He spent 2 years in Oman between operations and technical addressing the IOCs and NOC reservoir challenges.