



SPE - Los Angeles Section

Horizontal Drilling Workshop

June 26, 2014

**The Grand, 4101 E. Willow Street
Long Beach, Ca 90815**

Learning Objectives

The one-day Horizontal Drilling and its Challenges workshop covers most of the basic/advanced engineering and concepts. This course provides a systematic, phased approach of the use of fundamental engineering principles, tubular mechanics and challenges associated in drilling these wells. The target audience should be interested to learn/refresh engineering principles so that they can be more equipped to consult as well as solve complex problems effectively and confidently. Upon completion of this course, attendees will have deeper knowledge of the basic principles used in day to day exercise and will be able to use the knowledge gained in a more improved way. This course will have practical hands-on class exercises to solve complex problems in practical terms through DSWE software accessed through the cloud.

7:30 a.m. Registration

8:00 Horizontal Drilling Workshop: Dr. Robello Samuel

1. General Introduction
2. Types of Horizontal Wells
3. Wellpath Planning
4. Surveying and Calculation of Horizontal Wellpath
5. Multilateral wells
6. New Generation Horizontal Wells
7. Downhole Tools and Measurements
8. Challenges and Mitigation
9. Casing Wear
10. Horizontal Completions
11. Software on Design, Torque and Drag estimation, Hole cleaning and Pressure management

4:00 p.m. Adjourn

Intended: For field & office engineers, geoscientists and geologists

Format: Lecture/Lab/ presentation

Book

Horizontal Drilling Engineering by Robello Samuel and Deli Gao
ISBN 978-0-615-83770-3 SigmaQuadrant.com



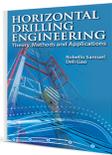
Software

Torque and Drag, Hydraulics – accessed through the cloud.

Participants should bring their own laptop computers

Registration and Payment

The fee of \$200 includes workshop, materials, refreshments, and lunch. Also, **Horizontal Drilling Engineering Book** by Robello Samuel is provided to all students free of charge. All attendees must register in advance. You may register and pay on line using PayPal at www.laspe.org/PayPal.html If paying by check out to “LASPE” or pay with cash, please pre-register by email to goras9@aol.com.



About the Instructor:

Dr. Robello Samuel is a Technology Fellow with Halliburton. He is currently a research and engineering lead for well engineering applications and responsible for research and scientific activities for new drilling technologies. He has more than 25 years of multi-disciplinary experience in domestic and international oil/gas drilling and completion operations, management, consulting, software development and teaching. He is also an adjunct Professor at the University of Houston and Texas Tech University, Lubbock for the past 10 years. He has published more than 120 technical papers, reports, books. He is presently serving in several Editorial Review Committees. Samuel’s unique blend of skills as a field engineer, researcher and teacher helped him to author six drilling books and a forthcoming book “*Drilling Engineering Optimization*”. He started his career working on rigs as a drilling engineer. He has also worked at Oil and Natural Gas Corporation from 1983 to 1992 as a field drilling engineer. Dr. Samuel, a SPE Distinguished Lecturer, holds B.S. and M.S. (mechanical engineering) degrees from University of Madurai and College of Engineering, Guindy, Anna University (Chennai), M.S. and Ph.D. (petroleum engineering) degrees from Tulsa University. He is also the author of seven bestselling drilling engineering books.