



Lunch & Learn with Shell

Fiber Optics in the O&G Business: Introduction, Applications, Challenges & Opportunities

Speakers: Gustavo Ugueto and Paul Huckabee (Shell)

Thursday, December 1st 2016. 12:00 pm @ Berthoud Hall, Room 241.

Presentation Outline

Introduction

Fiber Optics Physics, Well Deployment Options and System Components

Well Surveillance Applications Examples

Distributed Sensing DxS

Geophysical Application

Well Operations & Stimulation Monitoring

Production Profiling & Monitoring

Challenges & Opportunities

Cost & Reliability

Data Volume, Handling, Interpretation Algorithm and Tools

Value: Data Integration & Modeling

O&G FO Reference

SPE/ARMA LUNCH AND LEARN FIBER OPTICS IN THE OIL & GAS INDUSTRY

WHEN: THURSDAY, DECEMBER 1ST AT 12PM

WHERE: BERTHOUD 241

TITLE: FIBER OPTICS IN THE O&G BUSINESS - INTRODUCTION,
APPLICATIONS, CHALLENGES, & OPPORTUNITES

SPEAKERS: GUSTAVO A. UGUETO AND PAUL T. HUCKABEE, SHELL

LUNCH WILL BE PROVIDED

GUSTAVO UGUETO IS CURRENTLY SHELL'S PRINCIPAL PETROPHYSICIST FOR THE COMPLETION AND TECHNOLOGY EFFECTIVENESS TEAM AND REGIONAL FIBER OPTICS DEPLOYMENT COORDINATOR FOR THE AMERICAS FOR UNCONVENTIONALS. IN 1982 HE RECEIVED A DEGREE IN GEOLOGICAL ENGINEERING FROM UNIVERSIDAD CENTRAL DE VENEZUELA. HE BEGAN HIS CAREER AS PETROPHYSICAL ENGINEER AT PETROLEOS DE VENEZUELA S. A. AND JOINED SHELL INTERNATIONAL IN 1988 WHERE HE HAS WORKED AS PETROPHYSICAL ENGINEER AND SECTION HEAD OF PETROPHYSICS IN THE HAGUE, LONDON AND NIGERIA. IN 1996 HE BECAME DISCIPLINE HEAD OF PETROPHYSICS IN BRUNEI BEFORE TRANSFERRING TO USA IN 1997. AFTER WORKING IN SEVERAL EXPLORATION AND DEVELOPMENT PROJECTS IN DEEP WATER GULF OF MEXICO BOTH IN NEW ORLEANS AND HOUSTON, IN 2005 HE STARTED WORKING ON THE DEVELOPMENT OF UNCONVENTIONAL TIGHT SANDS AND SHALES RESERVOIRS IN THE US-ROCKIES. DURING THIS TIME, HE ALSO WAS TECHNOLOGY COORDINATOR AND GEOSCIENCE ADVISOR FOR MULTIPLE EXPLORATION AND DEVELOPMENT ASSETS IN US-ROCKIES. IN 2010 HE BECAME SHELL'S GLOBAL PRINCIPAL TECHNICAL EXPERT (PTE) FOR DATA ACQUISITION AND SPECIAL PROCESSING WITHIN PETROPHYSICS.

PAUL HUCKABEE HAS 37 YEARS INDUSTRY EXPERIENCE SPECIALIZING IN COMPLETION AND STIMULATION DESIGN & OPTIMIZATION AND PRODUCTION ENGINEERING. PAUL HAS EXTENSIVE EXPERIENCE WITH HYDRAULIC FRACTURE STIMULATION DESIGN AND EXECUTION SPANNING TEN ORDERS OF PERMEABILITY MAGNITUDE. PAUL IS CURRENTLY PRINCIPAL WELLS ENGINEER, COMPLETIONS ENGINEERING ADVISOR, FOR SHELL'S COMPLETIONS & TECHNOLOGY EFFECTIVENESS TEAM, UNCONVENTIONALS AND IS A GLOBAL SUBJECT MATTER EXPERT FOR HYDRAULIC FRACTURING STIMULATION DESIGN. PAUL HAS BEEN AN INNOVATOR OF OPTIC FIBER DISTRIBUTED TEMPERATURE SENSING (OF-DTS) AND QUASI-DISTRIBUTED PRESSURE SENSING APPLICATIONS FOR UNCONVENTIONAL WELL STIMULATION DIAGNOSTICS AND RESOURCE DEVELOPMENT WELL SPACING OPTIMIZATION. PAUL HAS BS & MS DEGREES IN ELECTRICAL ENGINEERING FROM LSU.

Food will be provided! We hope to see you there!