

PETROLEUM ENGINEERING

FOR NON-ENGINEERS



THE UNIVERSITY of
TULSA
*Continuing Education for
Science & Engineering*

April 10-12, 2018

HOUSTON, TX

December 4-6, 2018

HOUSTON, TX

ABOUT YOUR INSTRUCTOR

BRIAN S. MUSSO is a licensed petroleum engineer with more than 40 years experience in the petroleum industry, including asset development, portfolio management, reserves assessment, and reservoir appraisal. After retiring from BP/Amoco he functioned as a project manager for a tight gas pilot program in Argentina, engineering manager for MCX, and as engineering manager for Venco, overseeing Southern California operations. Mr. Musso specialized in reservoir characterization and reserves assessment. He has conducted seminars and presentations to many major US and international petroleum corporations.

Would you benefit from an **understandable, easy-to-follow overview of petroleum engineering?**

Would you like to **be able to better interact with petroleum engineers and geologist coworkers?**

Would you like to **better understand the petroleum exploration and production process?**

If you answered YES, this seminar is for you!

The objectives of this seminar are to provide nontechnical support personnel an overview of the petroleum exploration/production process. Attendees will learn the terminology associated with these procedures and practices that will increase their understanding of the process and facilitate better communication with engineers and geologists.

COURSE OUTLINE

- Introduction and overview of geology behind the process
- “Oil Well” video illustrating basic drilling and completion, as well as a blow-out
- Overview of on-shore drilling rigs: design considerations, pros and cons of different systems
- Overview of off-shore rigs: submersibles, floating platforms, barges, jack-up
- Directional drilling tools and techniques: identification of conditions requiring a directional well, horizontal well productivity, and pros and cons
- Well completions: completion methods — open hole, perforating, wire wrap; discussion of oil well production equipment — casing, tubing, review of cementing practices and procedures; radial flow
- Reservoir stimulation: acidizing, hydraulic fracturing
- Reservoir drive mechanisms: dissolved gas, gas cap, water and combo drives; discussion of the impact of different drives on oil and gas production
- Improved recovery techniques: waterflooding; artificial lift options — gas lift, sucker rod pumps and electric submersible pumps
- Handling sub-surface fluids; removing water; separating liquid and gas; storing crude oil
- Well log analysis: SP and GR logs; shaliness; porosity measurement — equation calculation; density logs/sonic logs; determining saturation

WALK AWAY KNOWING...

- ▶ The requirements for an exploration project
- ▶ Tools, practices and terminology associated with drilling a well
- ▶ Offshore drilling equipment and practices
- ▶ Application of directional and horizontal drilling techniques
- ▶ How openhole logs and cores are used to evaluate a well
- ▶ Completion practices, including hydraulic fracture stimulation
- ▶ How oil is produced from a well with artificial lift
- ▶ About surface equipment used to gather, process and store produced fluids

Who Should Attend

Anyone needing or wanting an understanding of petroleum engineering in order to be more productive at their job, will find this seminar beneficial.

Past participants have included Engineering Techs, Administrative Assistants, Landmen, Geo Techs, Managers, Regulatory Analysts, Sales Representatives, IT Consultants, Accountants, Land Techs, Recruiters, Attorneys, and Executive Assistants.

Dates, Times, and Locations

April 10-12, 2018 | Houston, Texas

December 4-6, 2018 | Houston, Texas

The seminar meets from 8:30 am - 4:30 pm each day. Both classes will be held at the Doubletree Hilton at Greenway Plaza, 6 Greenway Plaza East, Houston, TX 713-629-1200

Accreditation Information

This course qualifies for 1.95 CEUs (Continuing Education Units) and 19.5 PDHs (Professional Development Hours).

In-Company Presentations

This course taught is also offered as an in-company training program. For more information, contact Susan Gates at susan-gates@utulsa.edu.

What past attendees say about this course:

“At last, all those acronyms and terms I’ve been hearing finally make sense!”

– B. W., Engineering Tech, Sheridan Production

“For someone having very little knowledge of the oil and gas industry, this course was easy to understand. I feel more knowledgeable.”

– B. R., File Clerk, Energy XXI

“A very informative overview from drilling to completions to production and everything in between!”

– J. D., Engineer Tech - Prod., Linn Energy

“This was time very well spent.”

– K. W., Sr. VP, First Interstate Bank



HOW TO MAKE HOTEL RESERVATIONS

To make room reservations at the seminar site, contact reservation rooms specialist Lesley Close directly at 713-850-2308, or email her at lesley.close@hilton.com. To ensure space availability and special group rates, reservations should be made at least 45 days prior to the seminar date.

PETROLEUM ENGINEERING

FOR NON-ENGINEERS

Yes! I would like to register for **Petroleum Engineering for Non-Engineers:**

April 10-12, 2018 — Houston, TX

December 4-6, 2018 — Houston, TX

FIRST NAME

LAST NAME

JOB TITLE

ORGANIZATION / COMPANY NAME

ADDRESS

CITY

STATE

ZIP

COUNTRY

PARTICIPANT'S PHONE (WITH AREA CODE)

CHECK ONE: Cell Work Home

PARTICIPANT'S EMAIL

COURSE FEE SCHEDULE

Online Registration available at www.cese.utulsa.edu (credit card payments only)

Fees listed are per person and in net US Dollars

SELECT ONE:

\$1,695.00... **GROUP DISCOUNT** (Available to 3 or more from the same company)

\$1,895.00... **EARLY REGISTRATION DISCOUNT** (See *Early Registration Discount* for details)

\$1,995.00... **REGISTRATION FEE**

PAYMENT OPTIONS

Check (Make payable to The University of Tulsa, CESE)

Credit Card (Complete this registration form and return to the TU-CESE office. You will be contacted for payment information. Online course registration is also available for credit card payments at www.cese.utulsa.edu).

SEMINAR FEE

The seminar fee covers all materials specially prepared for this program (expanded program handbook, Drilling and Production Rig Component Chart, workshop

manual, articles, forms, checklists), demonstrations, instruction, University of Tulsa, CESE Certificate of Completion and daily break refreshments.

GROUP DISCOUNT

Available to groups of three or more people from the same company attending the same event/location.

EARLY REGISTRATION DISCOUNT

To qualify, your registration and payment must be received in our office 30 days prior to the seminar location you plan to attend.

What past attendees say about this course:

“This course has been like putting pieces of a puzzle together. I now feel I can communicate better with the engineers, as well as understanding the “how” and “why” of petroleum engineering.”

– E. J., Engineering Tech,
Cimarex Energy

“Great information in a compact course to help understand the nuts & bolts of the energy industry.”

– J. B., Engineering Analyst,
Linn Energy

“This course was like turning on a light bulb in the dark! It will make my job so much better!”

– L. M., Administrative Assistant,
Newfield Exploration

“I have been in O&G services sales for 15 years and the drilling terminology was always a foreign language to me. Now the pieces of the puzzle fit!”

– S. C., Sales Rep,
Flotek Industries

“Great enthusiasm and knowledge! Made learning very fun. This will help me in my daily work in the Accounting Dept.”

– J. G., E & P Supervisor,
SM Energy



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