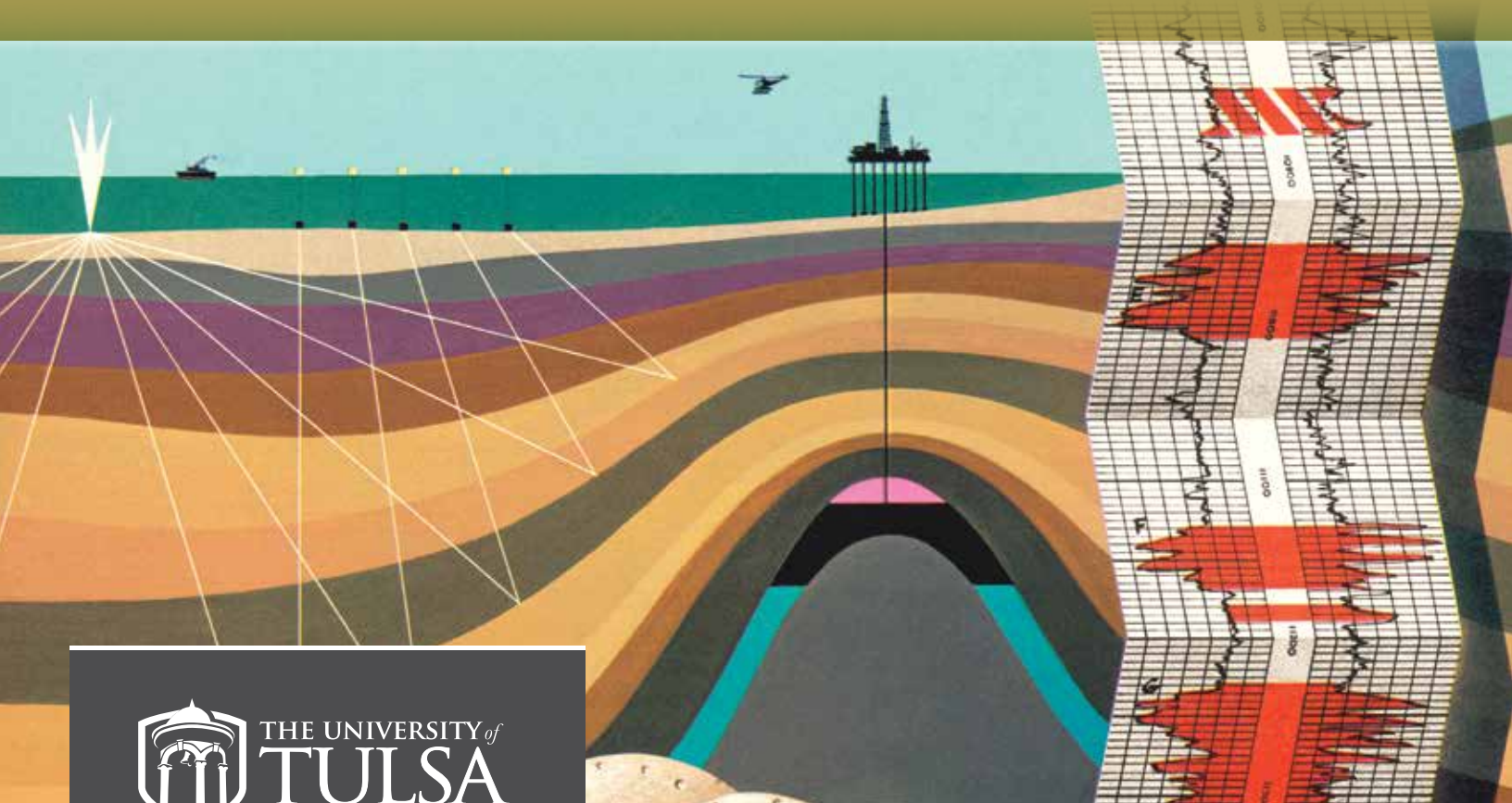


BASICS OF RESERVOIR ENGINEERING



THE UNIVERSITY of
TULSA

*Continuing Education for
Science & Engineering*

ABOUT YOUR INSTRUCTOR

BRIAN S. MUSSO is a licensed petroleum engineer with more than 40 years of experience in the petroleum industry, including asset development, portfolio management, reserves assessment, and reservoir appraisal. He was with Amoco and BP/Amoco where he worked onshore, offshore (shelf and deep water) and international operations. After retiring from BP/Amoco he functioned as 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, including the execution of cross-discipline team asset development of multi-billion dollar deep water projects. He has conducted seminars and presentations to many major US and international petroleum corporations on various subjects; and to both US and international government officials.

June 6-7, 2017

November 14-15, 2017

Houston, TX

This two day course is designed to provide a basic understanding of the multi-disciplined approach to performing reservoir engineering and understanding why it is crucial to the petroleum industry.

Participants will gain an understanding in both newly developed and existing reservoirs of reservoir deposition, reservoir quality and reservoir characteristics necessary for economically viable recovery by:

- Understanding reservoir rock properties, fluid properties and drive mechanisms applied in the estimation and calculation of both in place and recoverable hydrocarbons.
- Learning the primary tools and techniques used by reservoir engineers to evaluate reservoir properties such as pressure, saturation, porosity, permeability and net pay necessary to quantify recoverable reserves and resources.

DURING THIS TWO-DAY SEMINAR, YOU WILL LEARN...

- ▶ Identification of oil and/or gas reservoirs
- ▶ The difference between conventional, tight rock and unconventional reservoirs
- ▶ Reservoir rock properties including porosity and permeability
- ▶ How oil and gas are formed
- ▶ The steps necessary for estimating and calculating in place and recoverable oil and gas and why these are important

COURSE OUTLINE

- Basic Reservoir Engineering
- Reservoir Engineering — A Multi-Disciplined Approach
- Reservoir Quality and Characteristics
- Reservoir Deposition — Petroleum Geology
- What Constitutes a Reservoir
- Oil Migration and Traps
- Reservoir Pressures
- Reservoir Fluids
- Fluid Saturations
- Hydrocarbon Fluid Classification
- Reservoir Fluid Properties — Focus of Gas and Oil
- Reservoir Water Properties
- Estimation of Oil and Gas Originally in Place
- Reservoir Drive Mechanisms
- Decline Curve Analysis
- Reserves

Who Should Attend

Anyone communicating with or supporting multi-disciplined teams of geoscientists, engineers, or technical analysts who participate in reservoir exploration, appraisal, development and/or production of hydrocarbon reservoirs. This includes: Information Technology, Regulatory/Permitting, Land/Legal, Non-Technical Management, Accounting, Support Technologists, Midstream/Downstream Support Teams.

Dates, Times, and Locations

The seminar meets from 8:30 a.m. to 4:30 p.m. each day.

June 6-7, 2017 | Houston, Texas

The location for the event is the **Doubletree Hotel** at Greenway Plaza, 6 Greenway Plaza East, Houston, TX 77042, 713-629-1200.

November 14-15, 2017 | Houston, Texas

Marriott Westchase Hotel, 2900 Briarpark Drive, Houston, TX 77042, 713-978-7400.

Accreditation Information

This course qualifies for 1.25 CEUs (Continuing Education Units) and 12.5 PDHs (Professional Development Hours).

Course Benefits and Impact

- ▶ Participants will comprehend how reservoir engineers process their workloads and how they interact with other team members.
- ▶ **IMPACT:** Save \$\$\$ by understanding the reservoir which will, in turn, optimize the number of drilling wells.
- ▶ Attendees will gain a better understanding of how to communicate with reservoir engineers and geoscientists in major projects and day-to-day activities.
- ▶ **IMPACT:** Maximizing the SPE/SEC reserve booking policy using these reserves to borrow money for capital investments.
- ▶ Discover and appreciation for data requirements, why certain data is needed, how it is used in reservoir analysis and the impact it has on the organization.
- ▶ **IMPACT:** Reduce payback time and generate a positive cash flow by learning how to utilize proper completion techniques to maximize flow rate.

In-Company Presentations

This course is offered as an in-company training program. For more information, contact Susan Gates at (918) 631-3150 or susan-gates@utulsa.edu.

Hotel Reservations

To make room reservations at the seminar site, contact the hotel directly. Specify you are with The University of Tulsa seminar for special group rates. To ensure availability, reservations should be made at least 45 days prior to the event.

BASICS OF RESERVOIR ENGINEERING

Yes! Register me for **Basics of Reservoir Engineering:**

- JUNE 6-7, 2017 — Houston, TX**
 NOVEMBER 14-15, 2017 — Houston, TX

FIRST NAME	LAST NAME		
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JOB TITLE			
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ORGANIZATION / COMPANY NAME			
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ADDRESS			
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PARTICIPANT'S PHONE (WITH AREA CODE)			
<input type="text"/>			CHECK ONE: <input type="checkbox"/> Cell <input type="checkbox"/> Work <input type="checkbox"/> Home
PARTICIPANT'S EMAIL			
<input type="text"/>			

COURSE FEE SCHEDULE

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

SELECT ONE — fees listed are per person and in net US Dollars:

- \$995.00** **GROUP DISCOUNT** (Available to 3 or more from the same company)
 \$1,295.00 **EARLY REGISTRATION DISCOUNT** (See *Early Registration Discount* for details)
 \$1,495.00 **REGISTRATION FEE**

PAYMENT METHOD

- CHECK ENCLOSED** Make payable to The University of Tulsa, CESE
 VISA **MasterCard** **Discover** **American Express**

CREDIT CARD NUMBER	EXP. DATE (MM/YY)	CVC CODE
<input type="text"/>	<input type="text"/>	<input type="text"/>

NAME ON CARD

<input type="checkbox"/>	BILLING ADDRESS			
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CHECK IF BILLING ADDRESS IS THE SAME AS ABOVE

SEMINAR FEE

The seminar fee includes all course materials, handouts, exercises, daily break refreshments and certificate of completion.

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 people say about instructor Brian Musso:

“Brian brings a tremendous energy and passion to teaching...”

“...Brian Musso kept my interest the entire time.”

“(Brian) did a great job making the class engaging and interesting.”

“(Brian) has a lot of knowledge and experience, but what’s even more important is he has a gift for passing that knowledge and experience on to others.”



To enroll, complete and return the enrollment form with payment to:

The University of Tulsa – CESE
800 S. Tucker Dr., Tulsa, OK 74104-3189
Fax: 918.631.2154; Phone: 918.631.3088
Email: cese@utulsa.edu

