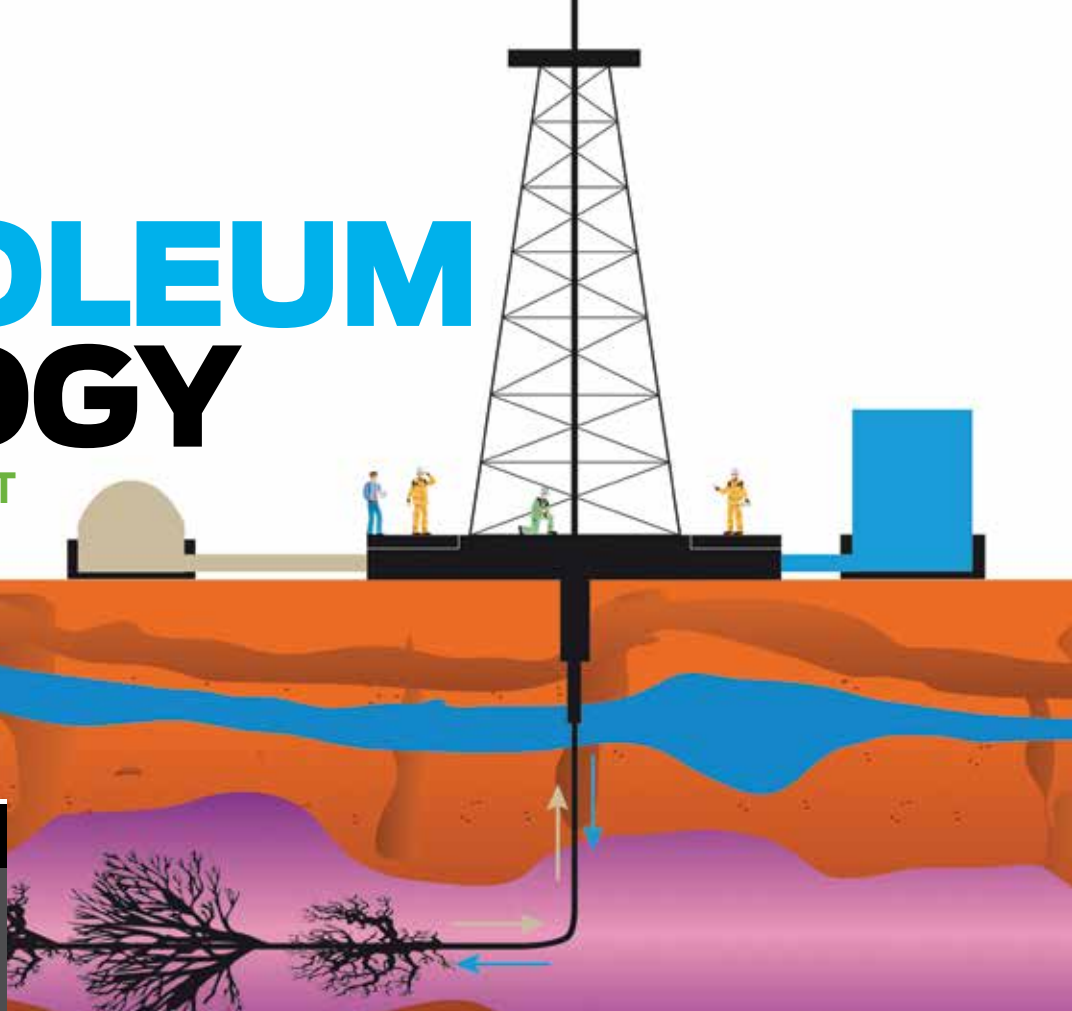


# BASIC PETROLEUM GEOLOGY

FOR THE **NON-GEOLOGIST**



## SPONSORED BY



THE UNIVERSITY of  
**TULSA**

*Continuing Education for  
Science & Engineering*



**March 20-22, 2018**  
**HOUSTON, TEXAS**

**October 23-25, 2018**  
**HOUSTON, TEXAS**

## ABOUT YOUR INSTRUCTOR

**DR. NORMAN J. HYNE**, is a Certified Petroleum Geologist and President of NJH Energy. He joined The University of Tulsa's Geosciences Department in the late 1960s and is now Professor of Petroleum Geology in TU's Continuing Engineering & Science Education Department. He received his geology degrees from Pomona College (B.A.), Florida State University (M.S.), and the University of Southern California (Ph.D.). Norm is a frequent contributor to professional publications, as well as the author of several books on petroleum geology and exploration. He is a member of SPE, AAPG, GSA, SEG, the Tulsa Geological Society and The Explorer's Club. He recently received the AAPG Grover E. Murray Memorial Distinguished Educator Award which is given in recognition of distinguished and outstanding contributions to geological education.

**In just three days, you will learn the fundamentals of petroleum exploration, drilling, and production ... and have fun doing it!**

**This understanding of the oil and gas industry will enable you to communicate more efficiently and perform your job more effectively.**

- You will be introduced to exploration techniques and tools that geologists and geophysicists use, such as correlation, mapping, and seismic.
- Dr. Norman J. Hyne, the instructor, will explain the methods used to drill, test, and complete a well, and how the gas and oil are produced.
- You will work with samples of geological and engineering materials, plus you will learn to identify common rocks and minerals using various different hands-on methods.
- Exercises throughout the course provide practical experience with well correlation, well log interpretation, subsurface map interpretation, and seismic interpretation. You will actually locate where to drill a well on the map you correlated!
- This seminar is well illustrated with continuous power points plus hands-on samples including a drill bit, the Wilcox Sandstone, and samples of various crude oils.
- **BONUS:** You will hear stories throughout the program of many famous (and not so famous) oil and gas professionals, which helps bring the industry to life.

## PROGRAM CONTENT

- What are gas and oil?
- The earth's crust
- Where we find oil and gas
- Hands-on identification of common rocks and minerals
- Deformation of the earth's crust
- How petroleum traps are formed
- Geological time and its importance
- Petroleum reservoirs formed by sandstone
- Petroleum reservoirs formed by limestone
- How sedimentary rock depositional patterns are used to locate potential oil
- The different types of maps used to find petroleum
- Ocean environment and plate tectonics
  - An explanation of mountains, trenches, volcanoes, earthquakes, and Middle Eastern oil fields
- Generation, migration, and accumulation of petroleum
- The characteristics of petroleum traps
- Petroleum exploration using geological methods
- Drilling a well (*equipment, methods, drilling problems and techniques*)
- Evaluating a well: Well logging
- Completing a well: The equipment
- Petroleum production, well stimulation, and enhanced oil recovery

## WALK AWAY KNOWING...

- ▶ The basic processes in the formation of rocks and petroleum
- ▶ The occurrence, distribution, and nature of oil and gas
- ▶ The use of geological and seismic data in petroleum exploration
- ▶ How to explore for oil and gas
- ▶ How to drill and complete a well
- ▶ How to qualitatively interpret well logs
- ▶ How to produce petroleum and calculate reserves
- ▶ Stories about oil and gas professionals throughout history

## Just a Few of the Course Benefits

- You will see how the processes behind petroleum exploration and production contribute to your company.
- Your newly acquired skill set can immediately be put to work increasing your overall job productivity.
- This program will build your enthusiasm for the petroleum industry and increase your confidence.
- Obtaining a better understanding of the industry will allow you to communicate efficiently with others in your company.

## You Will Receive . . .

- Course materials and hand-outs specially prepared for this program.
- Common rock and mineral kit
- Wallet card listing the geological times and various map symbols
- A copy of Norm Hyne's, *Nontechnical Guide to Petroleum Geology, Exploration, Drilling & Production*, 3rd Edition
- Four wall charts: Petroleum Basin Map of the United States, Drilling and Production Rig Component Diagram, Well Log Response Chart, Oil and Gas Field Classifier
- The University of Tulsa, CESE, Certificate of Completion

## Who Should Attend

Do you need an overall perspective of petroleum exploration, drilling, and production in order to be more productive at your job? If so, this seminar is for you! Past participants have included managers, accountants, landmen, draftsmen, attorneys, secretaries and clerks, geological and geophysical technicians, investors, petroleum service personnel, petroleum banking and financial ventures personnel, business administrators and executives, human resources personnel, geophysicists without geological training, computer programmers, economists, and engineers.

## Dates, Times, and Locations

**March 20-22, 2018** and **October 23-25, 2018**  
**Houston, Texas**

The course meets from 8:15 a.m. to 4:30 p.m. each day. Both classes will be held at the **Marriott Westchase Hotel** located at 2900 Briarpark Drive, Houston, Texas 77042 (713-978-7400).

## Accreditation Information

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



### Marriott Westchase Hotel

**HOTEL RESERVATIONS:** If you wish to make room reservations at the seminar venue, contact the hotel directly at 800-452-5110. Specify you are with The University of Tulsa seminar for the group rate of \$159/night. To ensure space availability and special group rates, reservations should be made at least 45 days prior to the seminar date. The hotel offers **FREE PARKING**.

# BASIC PETROLEUM GEOLOGY

## FOR THE NON-GEOLOGIST

**Yes!** I would like to register for **Basic Petroleum Geology For The Non-Geologist:**

☐ **MARCH 20-22, 2018 — Houston, TX**

☐ **OCTOBER 23-25, 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

Fees listed are per person and in net US Dollars. **SELECT ONE:**

☐ **\$1,795.00** .... **GROUP DISCOUNT** (Available to 3 or more from the same company)

☐ **\$1,995.00** .... **EARLY REGISTRATION DISCOUNT** (See Early Registration Discount for details)

☐ **\$2,295.00** ... **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](http://www.cese.utulsa.edu)).

#### SEMINAR FEE

The seminar fee includes all course materials (see What You Will Receive section), 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:

**"Excellent course. Learned a ton and was engaged the entire three days."**

— Sara D., Landman, Noble Energy, Inc.

**"Excellent course! Dr. Hyne is fun and he knows his stuff!"**

— Haley M., District Sales Manager, Umimin Energy Solutions

**"Norm is a GREAT teacher. The class was fun in addition to being very informative. I now feel I can understand my daily tasks better."**

— Josh M., Engineering Geo Tech, BTA Oil Producers, LLC

**"This class is a must for anybody that provides any kind of services to petroleum geologists."**

— Aaron Y., Technology Delivery Analyst, ExxonMobil

**"Provides a great understanding of geology and basic drilling principles for those supporting upstream companies."**

— M. B., Principal, Noah Consulting

**"I wish I could have taken this two years ago when I started in the O/G industry! So many aspects make sense now."**

— C. C., Geo-tech, Cabot Oil & Gas Corp.

**"Amazing course. Super helpful. Norm is a fantastic instructor."**

— David D., Division Order Analyst, Four Point Energy, LLC



#### The University of Tulsa

#### Continuing Education for Science & Engineering

Mailing Address: 800 S. Tucker Drive, Tulsa, OK 74104

Physical Address: 1204 S. Harvard, Tulsa, OK 74112

918-631-3088; [cese@utulsa.edu](mailto:cese@utulsa.edu)

[www.cese.utulsa.edu](http://www.cese.utulsa.edu)