PETROLEUM GEOLOGY FOR NON-GEOLOGISTS

February 1-2, 2018
Royal Sonesta Houston
Houston, TX

EUCI is authorized by IACET to offer 1.5 CEUs for the course
OVERVIEW

Geology is a fundamental aspect of the modern effort to locate and usefully exploit hydrocarbons (petroleum, natural gas and even coal). A basic understanding of its concepts, terminology and scope is indispensable for anyone working within the petroleum industry.

This course is designed for oil and gas professionals with little or no technical training. The primary objectives of this course are to broaden attendees’ geological vocabulary, explain selected geological principles and processes, describe how certain petroleum reservoirs and source rocks are formed and highlight the important connections from exploration to consumption of petroleum products. Participants will acquire an understanding of the geological principles employed to find, develop and produce oil and gas reservoirs, the type of data required to build a model of the subsurface, and the different methods used to display information. The value and limitations of different data sources will be discussed. Emphasis is placed on the exploration, production and applied aspects of petroleum geology. The course will demonstrate how appropriate use of geological information can lead to better management decisions and thus improve the value of oil and gas projects.

LEARNING OUTCOMES

- Recognize the most common rocks and minerals
- Define the different types of crude oils and natural gases and their measurements
- Identify the basic processes in the formation and deformation of sedimentary rocks
- Review the tasks performed by a petroleum geologist
- Examine the formation of natural gas and crude oil
- Evaluate the occurrence and distribution of crude oil and natural gas
- Appraise the characteristics of petroleum traps
- Assess the use of geological and seismic data in petroleum exploration
- Determine how to drill a well
- Identify common petroleum geology vocabulary, technique and equipment
- Review well testing and qualitatively interpreting well logs
- Identify how to complete a well, the language, techniques and equipment
- Examine how to produce crude oil and natural gas, calculate reserves, stimulate wells and improve oil recovery

WHO SHOULD ATTEND

- Petroleum industry personnel in need of basic geological training
- Petroleum engineers (reservoir, drilling, production) who work with geological input data
- Engineering techs
- Geophysicists with little geological background
- Other geophysics professionals
- Landmen
- Project managers whose teams include petroleum geologists
- Attorneys
- Financial and accounting managers
- Support professionals
- Oil & gas employees providing technical support
- Administrative personnel for oil and gas companies
- Geoscientists
- Other non-technical personnel who require a basic understanding of petroleum engineering.
- Investment managers, brokers, analysts wanting to better interpret oil company press releases and other public documents
- Government data managers who handle petroleum geological data and need to understand the sources of different types of data
- Small company directors who have picked up a large amount of geological information over the years but need a bit of ‘time out’ to put it all together in a systematic format
AGENDA

THURSDAY, FEBRUARY 1, 2018

8:00 – 8:30 am  Registration and Continental Breakfast

8:30 am – 5:00 pm  Course Timing

12:00 – 1:00 pm  Group Luncheon

Overview
• What is petroleum geology
• Where petroleum is found: Common rocks and minerals
• When is petroleum formed

The Nature of Petroleum
• Types of petroleum products
• Occurrence and distribution of crude oil and natural gas
• Measurements

Where Petroleum Forms: Sedimentary Rocks
• Types of sedimentary rocks
• How sedimentary rock deformed
• Distribution of sedimentary rocks

How Petroleum is Formed and Accumulates
• Petroleum generation
• Petroleum maturation
• Petroleum migration

Petroleum Accumulation and Traps
• Reservoir rocks
• Seal and cap rocks
• Traps

“Best course I have taken that fulfilled all questioning I had about geology after coming from a mechanical engineering background.”

Operations Engineer, NNOGC

“Very informative class on Petroleum Geology Basics with useful handout to aid in better understanding.”

Land Manager, Range Resources
AGENDA

FRIDAY, FEBRUARY 2, 2018

8:00 – 8:30 am  Continental Breakfast

8:30 am – 5:00 pm  Course Timing

12:00 – 1:00 pm  Group Luncheon

Methods of Exploration for Petroleum
• Geologic and geochemical methods
• Geophysical and seismic methods
• Mapping

Well Drilling
• Preliminaries
• Drilling techniques
• Types of drilling

Testing for Oil
• Types of well tests
• Well logging
• Other well surveys

Well Completion
• Types of well completion
• Well casing and tubings
• Well heads and christmas trees

Well Production, Transportation and Storage
• How petroleum is produced
• Well stimulation
• Transportation and storage of petroleum

Petroleum Reserves and Recovery
• Calculating crude oil and natural gas reserves
• Methods of improving oil recovery

INSTRUCTOR

Hendratta Ali, PhD
Professor, Fort Hays State University

Hendratta Ali graduate from the Boone Pickens School of Geology at Oklahoma State University (OSU), Stillwater Oklahoma with a Doctorate degree in Geology. Prior to her PhD, she obtained a B.Sc. in Earth Sciences (1998), an M.Sc (2003) and a post master’s diploma -DEA (2005) in soil and environmental geosciences.

She currently coordinates the petroleum program and teaches Petroleum Geology classes in the Geosciences department at Fort Hays State University (FHSU) located in Hays, Kansas. She is in charge of developing and growing the new petroleum geology program and teaches courses such as petroleum geology, seismic interpretation, geophysical well logging, stratigraphy and serve as a faculty advisor to student organizations.

She is author of three peer reviewed journal articles and multiple abstracts presented at national and international conferences. She is a recipient of multiple academic Scholarships and serves in several leadership roles. She is the current vice president and technical coordinator of Geophysical Society of Kansas, Society of exploration geophysicists committee for university and student programs and committee member of the SEG women’s network committee. She has several professional affiliation memberships including but not limited to the American Association of Petroleum Geologist (AAPG), the Society of Exploration Geophysicists (SEG), the Geological Society of Kansas, the Geophysical Society of Kansas.
REQUIREMENTS FOR SUCCESSFUL COMPLETION OF PROGRAM

Participants must sign in/out each day and be in attendance for the entirety of the course to be eligible for continuing education credit.

INSTRUCTIONAL METHODS

Case studies and PowerPoint presentations will be used in this program.

EVENT LOCATION

A room block has been reserved at the Royal Sonesta Houston, 2222 West Loop S, Houston, TX 77027, for the nights of January 31-February 1, 2018. Room rates are $169 plus applicable tax. Call 1-713-627-7600 for reservations and mention the EUCI event to get the group rate. The cutoff date to receive the group rate is December 31, 2017 but as there are a limited number of rooms available at this rate, the room block may close sooner. Please make your reservations early.

IACET CREDITS

EUCI has been accredited as an Authorized Provider by the International Association for Continuing Education and Training (IACET). In obtaining this accreditation, EUCI has demonstrated that it complies with the ANSI/IACET Standard which is recognized internationally as a standard of good practice. As a result of their Authorized Provider status, EUCI is authorized to offer IACET CEUs for its programs that qualify under the ANSI/IACET Standard.

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REGISTER 3, SEND THE 4TH FREE

Any organization wishing to send multiple attendees to this course may send 1 FREE for every 3 delegates registered. Please note that all registrations must be made at the same time to qualify.
Please make checks payable to: “PMA”

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February 1-2, 2018: US $1495, Early bird on or before January 12, 2018: US $1295

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name

Job Title

Company

What name do you prefer on your name badge?

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

List any dietary or accessibility needs here

CREDIT CARD INFORMATION

Name on Card

Billing Address

Account Number

Billing City

Exp. Date

Billing State

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

OR Enclosed is a check for $ to cover registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before December 29, 2017 in order to be refunded and will be subject to a US $195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI’s liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices at (201) 871-0474.