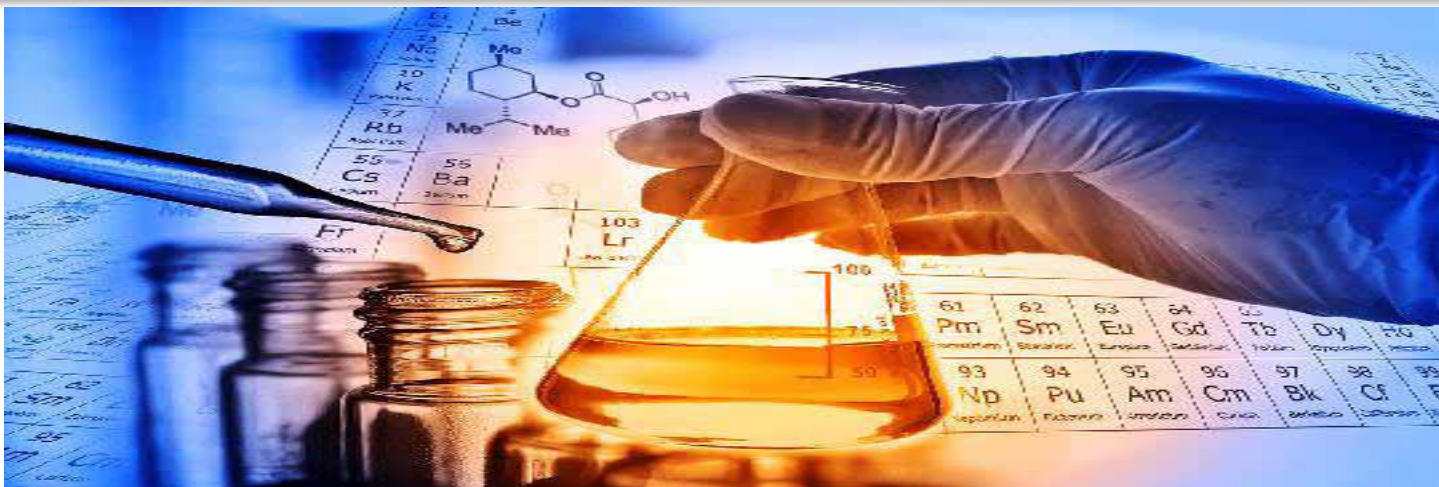


Petroleum Geochemistry applied to Exploration and Production Problems -Conventional and Unconventional Resources

6 - 10 November 2017, Kuala Lumpur (E.B: 25 Sep 2017)

12 - 16 November 2017, Dubai (E.B: 1 Oct 2017)



About Your Trainer



Prof. R. Paul Philp is a Emeritus Professor in the School of Geology & Geophysics, University of Oklahoma. His research interests are petroleum, environmental and forensic geochemistry with the emphasis on molecular and isotopic characterization of oils, gases, rock extracts and contaminants for the purposes of source determination, characterization of depositional environments, maturity, biodegradation and for correlation purposes. He has published a lot of peer-reviewed papers and has taught a number of petroleum and environmental geochemistry courses in many countries and companies. Some of the reputed companies for which he has conducted trainings are: Petrobras, Saudi Aramco, Petronas, Shengli Oil Field China, Petrovietnam and ONGC

"Dr. Philip has an excellent technical background and communication skills. I have the highest opinion of Dr. Philip's technical ability and his dedication to his courses. He is highly respected technically as a person within the ECOPETROL ICP and the Exploration Team."

- ECOPETROL S.A.

About The Organizer

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Key Benefits of Attending The Course

- Obtain a basic understanding of petroleum geochemistry
- Understand how this discipline should be integrated with other exploration tools
- Understand applications to unconventional resources
- Provide a better understanding of processes occurring in the reservoir



Course Overview

This course will provide an introduction to petroleum geochemistry and applications to exploration and production of conventional and unconventional resources.

The course will cover basic concepts of petroleum geochemistry, how it evolved and how it is applied to exploration, reservoir and production problems for both conventional and unconventional resources. The integration of geochemical data with basic geological concepts and sequence stratigraphic models will also be discussed.

We will start with a basic introduction to petroleum geochemistry and then discuss how these concepts are applied to characterization of source rocks and oils and how this information can be used to improve exploration success rates. This will then be extended to unconventional resources and how geochemistry is applied to those prospects in a somewhat different fashion than used for conventional resources.

Some basic knowledge of organic chemistry is useful but not essential since a basic introduction to the concepts used in the course will be given at the beginning of the course. Since the course focuses on the geochemical concepts and applications to exploration a basic understanding of sequence stratigraphy will also be useful but not essential.

Some exercises and examples will be provided for interpretation and discussion during the course and a short test will be given towards the end of the course to determine whether the major concepts have been understood.

Who Should Attend

- Geochemists
- Geologists
- Petroleum Engineers
- Geophysicists
- Laboratory workers involved in geochemical analyses and interpretation

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Course Outline

Day 1

1. Introduction to petroleum geochemistry

- What is the origin of petroleum geochemistry?
- Who were the important historical figures that provided the impetus for this discipline to be accepted into exploration activities?
- How was the evolution of petroleum geochemistry linked to the "Moon Rock" samples being collected and returned to Earth?

2. Formation and characterization of organic rich source rocks

- Formation of oil and gas requires organic rich source rocks. How are these rocks formed and why are some source materials better than others in terms of their ability to source oil rather than gas?

3. Source rock evaluation methods

- How do we characterize the source rocks in order to determine what they will produce and how much they will produce?

Day 2

4. Maturation and degradation of organic matter

- In addition to having organic rich rocks, it is necessary to have these rocks reach certain levels of maturity to generate oil and gas.
- What happens when a rock is heated and how does this influence the products that are generated?

5. Crude oils, generation, composition

- Why do crude oils from different source rocks have different compositions? How does the composition of oils change with maturity, biodegradation and other physical effects? How does that affect production?

Day 3

6. Reservoir geochemistry

- The three sections on this day of the course will all deal with what happens to oil when it reaches a conventional reservoir. Is it altered through degradation or other processes? Can we determine whether

there is continuity between different fault blocks?

- How does thermal maturity affect the composition of the oil? How do we characterize waxes in crude oils and differentiate them from asphaltenes?

7. Continuity studies

8. Biodegradation and other in-reservoir impacts

Day 4

9. Integration of geochemistry with sequence stratigraphy

- Geochemistry has provided a wealth of information that is useful for exploration purposes. However if these results are integrated with sequence stratigraphy data the approach becomes even more powerful. This section will discuss this approach and how geochemical data can be integrated with sequence stratigraphy models.

10. Natural gas

- Conventional natural gas is still an exceedingly important commodity. How is natural gas characterized and how do we use this information to predict origin of gas, migration pathways, alteration effects, commingling etc.?

Day 5

11. Shale Gas

- Shale gas development leads to the discovery of massive amounts of trapped gas and ultimately a dramatic lowering of gas prices. What is important in evaluating a shale gas play? What is important in shale gas production?

12. Shale oil

- Shale oil followed a similar path to shale gas. Many features looked for in shale gas plays are necessary in shale oil plays but at lower levels of maturity. How can you distinguish between an unconventional shale oil reservoir and conventional shale oil reservoir? This is a key issue in development of shale oil plays.



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