

OVERVIEW

Seismic stratigraphy is the study of seismic data for the purpose of extracting stratigraphic information. This modeling is done primarily by both synthetic seismograms and seismic logs. **Sequence stratigraphy** can be regarded as a methodology that employs sedimentological stratal stacking patterns and key bounding surfaces to erect a framework in which the depositional facies of sedimentary environments can be mapped and interpreted in the context of paleogeography. Sequence stratigraphical model includes data from various fields of geology, e.g., sedimentology, seismic, palaeontology, field geology, electrolog etc. Both of these two methods are highly used in search of **oil and gas**.

Seismic stratigraphic analysis can help i) to predict unconformities in the sedimentary record, ii) divide the sedimentary record into time-related genetic units, iii) to determine the occurrence of sedimentary facies in time and space, iv) to determine the amplitude and rates of past changes in sea-level, v) to interpret the depositional environment and reservoir characteristics. All these data are rigorously needed in hydrocarbon industry in search of oil and gas.

OBJECTIVES

- ◆ To enlighten the students deep in these two industry-oriented field of geology.
- ◆ To expose the students with the practical problems faced by the hydrocarbon industry based geologists.
- ◆ To carry out the modeling process related to the seismic and sequence stratigraphy.

COURSE MODULE

A. *Theory Classes*

B. *Practical Classes:*

Seismic Section Interpretation

Sequence Stratigraphical Modeling

COURSE CONDUCTOR



Dr. S. K. Roy, Advisor (CBM/Shale Oil & Gas) to Directorate General of Hydrocarbons, India, is an exploration geologists in oil and gas industry with nearly three decades of work experience. He has served ONGC Ltd, India, BG Group, UK; Petra Energia, Brazil; Petronas, Malaysia; earlier.

#Co-ordinator: Dr. Urbashi Sarkar

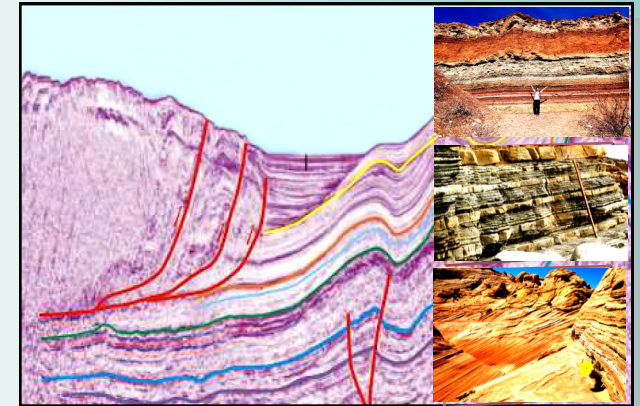
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Participants: Master degree and PhD students from Geology, Geophysics and Earth Science background. Number of participants for the workshop will be limited to sixty. Last date of registration is 5th March, 2018

#Venue: Department of Earth Science, Assam University, Silchar, Assam -788011

National Level Workshop on Seismic and Sequence Stratigraphy



Organized by

Department of Earth Science, Assam University

Date: 9th and 10th March, 2018

