



## **Training Program**

FACT, Inc. is pleased to offer many short courses to train oil and gas professionals, and others who may need to acquire an understanding of upstream technologies. Such courses are either given publicly or through in-house training that could be tailor made to the client specifications.

***FACT Training course titles:***

FACT Course 100: *3-D Seismic for Reservoir Characterization*

FACT Course 110: *Wavelet Transform and Seismic Data Compression*

FACT Course 120: *Multi-component Seismic and Anisotropy*

FACT Course 130: *Seismic Attributes to Detect Hydrocarbons*

FACT Course 140: *Rock Physics: Fundamentals and Applications*

FACT Course 150: *Neural Networks, Fuzzy Logic, Genetic Algorithms and AI*

FACT Course 160: *Joint and Intelligent Seismic Inversion*

FACT Course 170: *4-D Seismic and other Time Laps Data Applications*

FACT Course 180: *Pore Pressure Analysis and Prediction*

FACT Course 190: *Seismic Attenuation for Hydrocarbon Detection*

FACT Course 200: *Reservoir Characterization and Modeling*

FACT Course 210: *Velocity Model Building and Visualization*

FACT Course 220: *Reservoir Monitoring & Productivity Prediction from log & Seismic*

FACT Course 230: *Advance Seismic Processing and AVO*

FACT Course 240: *Borehole Geophysics: Methods and Applications*

FACT Course 250: *3-D Imaging for Complex Models*

FACT Course 260: *Application Programming for Reservoir Visualization and modeling*

FACT Course 270: *Fundamentals of Petrophysics for E&P*

FACT Course 280: *Tomographic Inversion and Cross Well Tomography*

FACT Course 290: *Fractal Analysis and Fracture Detection*

FACT Course 300: *Petroleum Geology for Geophysicists*

FACT Course 310: *Seismic Attributes and Geostatistics for Reservoir Characterization*

FACT Course 320: *Unconventional Reservoirs*

***Who should attend?***

These courses are designed for geophysicists, geologists, petrophysicists and petroleum engineers who desire to expand their knowledge practical applications of geophysical concepts in integrated exploration, field development, reservoir characterization, reservoir evaluation, reservoir modeling, reservoir simulation and reservoir management.

***FACT course instructors:***

The following is a partial list of FACT's instructors. All course synopses and biographies of instructors are available upon request.

Dr. Fred Aminzadeh	Dr. De Hua Han	Dr. Robert Hickman
Dr. Mohammad Sahimi	Dr. Shiv Dasgupta	Dr. Mohammad Bakhtiari
Dr. Dave Hill	Dr. Masoud Nikravesh	Dr. Kurt Strack
Dr. Aldo Vesnaver	Dr. Steven Ohnemus	Dr. Andrea Popa

***Where to attend?***

We offer Houston-based FACT courses at FACT's facility or other selected sites. We also offer on-site FACT courses at client's location or through scheduled workshops and seminars.

***When to attend?***

We schedule Houston-based training classes in July, September, and November 2000. We also offer on-site training according to clients' request. Among onsite courses conducted are those in Venezuela, (Perez Companc now Repsol, and Pdvsa/Intevep,) Saudi Arabia (Aramco), USA, (CGGVeritas, Luff Exploration and Technology Transfer Council, Western Region), Argentina (YPF/Repsol), and India (ONGC).

***What is the cost?***

The prices will vary depending upon the nature of the training program (e.g. training at FACT location, on-site training, individual or group, number of courses requested.) For details please contact FACT.

***FACT Contact:***

[info@fact-corp.com](mailto:info@fact-corp.com)

## **Brief listing of current Geoinfo Geological Courses offered**

All Schools are now in Spanish (ready to lecture) and English (need translation, 2 month time frame to translate each)

### **1- Introduction to geological use of wire line logs**

#### To whom is addressed:

Recently graduated geologists, geophysicists and reservoir engineers interested in geological data extraction. Non-geologists require knowledge of mineralogy and sedimentology.

#### Scope

Review of dip data acquisition. Review of log tools as geological data readers. Basic of log reading, from headers to scales. Hands-on over real cases. Development of school is based upon entry test (school calibration), lectures, questions to generate brainstorming; individual and group exercises.

#### Modules

- 1- Data Acquisition
- 2- Log Types
- 3- Geological Log Reading
- 4- Logs Used in Correlation
- 5- Pitfalls in Logging
- 6- Practical Log Applications

Duration: 4 ½ days (8 hours /day)

### **2- Structural Dipmeter Interpretation**

#### To whom is addressed:

Graduated geologists and geophysicists exposed to structural interpretation.

#### Scope

Review of basic geology data acquisition in wells, including well bore images.

Interpretation Basics: maximum, minimum, interruptions, azimuth and inclination color coding. Review of structures and its dip representation. Pitfalls in acquisition, processing and interpretation. Special interpretation procedures and auxiliary graphics. Hands-on over real cases. Development of school is based upon entry test (school calibration), lectures, and questions to generate brainstorming; individual and group exercises.

#### Modules

- 1- Data Acquisition I
- 2- Basic Interpretation Model
- 3- Acquisition II
- 4- Interpretation II

Duration: 4 ½ days

### **3- Paleogeomorphology I- Generalities and Continental**

To whom is addressed:

Graduated geologists with at least 5 years experience in sedimentary related interpretation; geophysicists and reservoir engineers with documented solid knowledge of sedimentation and stratigraphy.

Attendees are encouraged to have the **1- Induction to geological use of wire line logs in order to better understand the school.**

Scope

Get in context the geomorphology in the hydrocarbon industry. The geomorphology model and the data that records it in the subsurface. Erosion and sedimentation as an integrated process. Theory to practise from start.

Development of school is based upon entry test (school calibration), lectures, and questions to generate brainstorming. Exercise is a complete dataset to define a sedimentary environment that start at the very beginning to apply immediately lecture concepts.

Modules

- 1- Prologue
- 2- The geomorphology Model
- 3- Preserved Data in the Geological Record
- 4- Some Erosion Environments
- 5- Continental Sedimentary Environments
  - Colluvial
  - Alluvial
  - Fluvial
    - o Braided
    - o Meandering
    - o Ephemeral
  - Aeolian
  - Lacustrine (fresh and salty water)

Duration: 4 ½ days

### **4- Paleogeomorphology II - Shallow to Deep Water**

To whom is addressed:

Participants must have taken 3- Paleogeomorphology I School, as Generalities are not part of this school.

Scope

Discuss erosion and sedimentation in mixed and deep water environments (clastic and carbonates). Development of school is based upon entry test (school calibration), lectures, and questions to generate brainstorming. Exercise is a complete dataset to define a sedimentary environment that start at the very beginning to apply immediately lecture concepts. If tailored, the exercise will be over the tailored environments.

Modules

- 1- Deltas and Fan Deltas
- 2- Paralic
- 3- Coast
- 4- Calcareous
- 5- Open Marine
- 6- Platform
- 7- Talus
- 8- Abyssal Plains
- 9- Evaporites
- 10- Glacier-related sedimentation

Duration: 4 ½ days

**Paleogeomorphology I and II** can be tailored to client request and can even be reduced to certain group or environment in particular.