

TerraEx Group - Workshop 2

“Trap Integrity; Basic Best Practices Before Drilling”

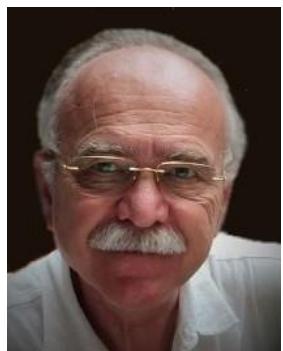
Discipline:	Geology, Exploration, Quality Assurance
Venue:	Texas Training and Conference Center
Time:	May 10 th 2018, 9 am – 4 pm, breakfast from 8 am on
Price:	Regular \$230, discounted* \$185
	Included: Training manual, hot lunch buffet, breakfast, beverages
Registration:	Click here to submit form or contact TerraEx Group at info@terraexgroup.com , + (303) 319 3043

Workshop Description

The workshop lays out some of the basic best practices regards prospect evaluation with the specific focus on the integrity of the trap. Workshops learnings will help participants to validate the assessment of trap risk and of retained hydrocarbon columns.

The workshop is intended to be a survey that gives a solid “awareness” into different topics that are grouped together based on common and basic errors seen frequently in Quality Assurance reviews. The workshop is best followed up with more detailed training in specific topics.

Instructor



John Karlo has a BA from Rutgers, an MA from Univ. Missouri and a Ph.D. in structure and tectonics from S.U.N.Y. He taught structure and geophysics at Central Michigan University before joining industry. He spent 30 years with Shell followed by 5 years with Maersk Oil and 2 years with Repsol. He has had positions in play development and prospect evaluation, regional teams, deepwater exploration, merger and acquisition and for 10 years was a senior advisor in Quality Assurance overseeing rigor in structural interpretation. He has worked in rifts, passive margins, fold belts and turbidites in over 25 basins worldwide. Some of the high points in his career include the first regional synthesis of the Dutch North Sea tectonics, groundbreaking work on Gulf of Mexico salt tectonics and deepwater exploration leading to world class discoveries in Nigeria. His current focus is on the complex subject of seal evaluation and the seismic expression of structural styles, subjects where he feels he can contribute to the education of the upcoming generation of geoscientists.

* TerraEx Group clients; more than two people from the same company; two workshops booked; early bird registration before April 27th2018

Learning Outcomes for Workshop

By the end of the course participants will be both aware of and be able to do basic evaluation:

- Placing a prospect in terms of hydrocarbon migration and fill leading to a prioritization of the prospects structural elements
- Quantifying the potential column height that can be retained by the prospect's top seal
- Constraining estimates of retained columns in cases of blown top seal
- Validating the reasonableness of the structural depiction of a fault trap
- Give a reasoned estimate of fault seal risk and constraints on trapped column height

Workshop Content

We start with a brief review of global exploration trends, the concepts of Exploration Triangle and Play

The following topics will be introduced:

- Faults, migration and charge
- EI330 - migration caught in the act
- Identifying fill – spill locations and the degree of trap fill
- Triangle and Allan diagrams in assessing juxtaposition and connectivity
- Red flags indicating brittle and fractured cap rocks
- The physics of capillary membrane top seals
- Predicting trapped column heights in cases of top seal constraint
- Basic Map QC rules for fault traps – preventing garbage in / garbage out
- The main processes that result in fault seals
- Evaluating shale smear seals
- Fault seal calibration using Shale Gouge Ratio
- Dynamic fault seal

The workshop will include case studies, simple illustrative exercises as time allows and present bibliographies of key references