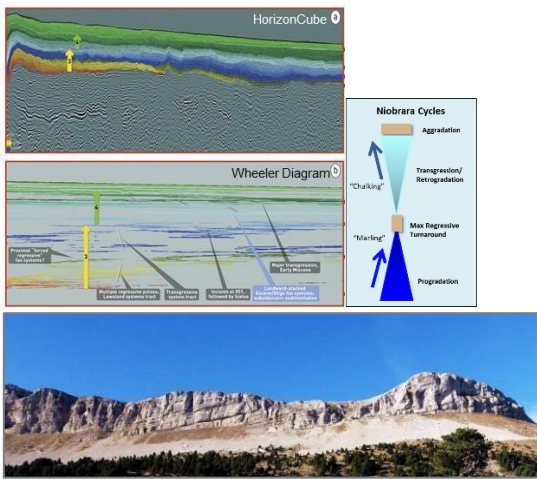


May 10-14, 2021
October 4-8, 2021



“Carbonate Sequence Stratigraphy – Built on Sedimentology”

by Katie Joe McDonough, PhD

This workshop is conducted online with 3.5 - hr sessions over 5 days

This 5-session workshop introduces basic concepts of sequence stratigraphy by first reviewing carbonate biological & sedimentologic processes and the resultant deposits—facies. We explore coeval depositional systems and how they relate spatially and temporally. We utilize the multi-scale cyclicity in carbonates to reveal sequences, stratal geometries and systems tracts. Sequence stratigraphic methods are applied to a variety of carbonate systems.

Examples from worldwide petroleum plays demonstrate cycle and stacking pattern recognition across depositional systems. Our multi-disciplinary approach demonstrates upscaling between data sets—seismic, outcrop, core, well log. Exercises demonstrate and reinforce sequence stratigraphic interpretation techniques. Improve your E&P outcomes by enhancing the quality of your carbonate stratigraphic interpretations.



Katie-Joe McDonough, PhD., is a geological/geophysical consultant specializing in sequence/seismic stratigraphy and integrated interpretations. Her areas of expertise in sedimentology and seismic interpretation form the foundation of her work in stratigraphic basin analysis, exploration play assessment and reservoir-scale development.

Dr. McDonough began her career as a geophysicist with Exxon USA, where she developed her interest in sequence stratigraphy and process sedimentology. As the field of seismic stratigraphy burgeoned in the 80s, she turned to the Colorado School of Mines, earning her Ph.D. in 1997 working the seismic-scale carbonate outcrops in the Southern Alps.

Since launching her consulting practice in 1999, Dr. McDonough has enjoyed gigs working diverse data sets for the international and domestic U.S. petroleum industry. She works continental to deep marine strata of conventional & unconventional plays in North and South America, East/West Africa, Europe and Indonesia. She has published widely on her work in many of these areas. She serves as an industry mentor to RMAG YPs and to Geophysics graduate students in CSM’s Reservoir Characterization Project. She is fluent in French, functional in Spanish, and has a 6-word Bahasa vocabulary.

Katie Joe McDonough, PhD

This workshop will adjust to participants experience level and interest as much as possible. Therefore, we will ask you beforehand to provide some information why you are taking this course, what your experience level is with the subject matter and the type of work you want to apply the learned content. In addition, we are offering free follow-up consultation via email or phone to discuss and advise on your specific challenges and projects.

This course is available for single participants as well as small groups (multi-client) and large groups (inhouse) – see below.

Workshop Outline

Session 1

Introduction and Basics

- Participant and instructor introductions
- Review of carbonate facies, Walther's Law, facies successions—basic stratigraphic cycles
- Recognizing cycles within and across carbonate depositional systems
- Stacking patterns in carbonates (1D) and their relationship to stratal geometry (2D-3D)

Session 2

- Accommodation / sediment supply—the essential controls
- Parasequences, systems tracts, sequences—how to navigate the nomenclature?
- Correlation strategies, scenarios and examples
- Take-home exercise – cycle, stacking pattern & stratal geometry recognition

Session 3

Stratigraphic concepts applied to E&P in conventional and unconventional plays

- Review recognition of cycles, stacking patterns & stratal geometry
- Recognizing multi-scale cyclicity and stratal geometry in seismic data

Session 4

- Recognition of seismic facies related to depositional facies
- In-session seismic exercise on carbonate stratal geometries
- Detailed topics of interest to attendees --

Session 5

Play-based petroleum systems analyses from sequence stratigraphic perspectives

- Worldwide examples and case histories
- Petroleum systems in carbonate systems tract context
- Current topics of interest to attendees (you'll be asked to provide input after Session 2)

COURSE LOGISTICS AND REGISTRATION

“Carbonate Sequence Stratigraphy – Built on Sedimentology” by Katie Joe McDonough

- Time:** Monday, May 10 – Friday, May 14, 2021 at 8 – 11:30 am Central Time US (Houston)
Monday, October 4 – Friday, October 8, 2021 at 8 – 11:30 am Central Time US (Houston)
- Venue:** ZOOM Meeting Platform. If you require a different online meeting platform, we can arrange for that.
- Included:** Manual pdf, certificates on request
- Price:** Single participant USD 975/900*; Multi-client USD 3,250, Inhouse USD 4,250
- Register:** [Follow link to register](#)

CONTACT TerraEx Group at info@terraexgroup.com or ++ 303 319 3043

Single participant - regular price for 1 participant (public schedule)

Single participant - discount price for 1 participant unemployed, academics and > 1 course booked (public schedule)*

Multi-client price for group up to 5 participants from the same company (public or custom schedule)

Inhouse price for group up to 25 participants from the same company (custom schedule)