

2021 RCRL Spring Sponsor's Seminar

Monday	Tuesday	Wednesday	Thursday	Friday
April 19	April 20	April 21	April 22	April 23
Session 1: Carbonate Reservoir Characterization for EOR, ROZ and CCUS (Kerans, Dommissie, others)	Session 2: Carbonate Reservoir Characterization for EOR, ROZ and CCUS (Kerans, Dommissie, others)	Session 3: Well log interpretation workflows for regional sequence stratigraphy systems (Price and Janson)	Session 4: Permian Seismic Interpretation (Janson)	
April 26	April 27	April 28	April 29	April 30
Session 5: Tight carbonate reservoirs of the Upper Cretaceous (Loucks, Zahm, Male and Lambert)	Session 6: Interpretation and characterization of fractured reservoirs (Zahm)	Session 7: Mesozoic Carbonates of the GOM Basin (Kerans, Loucks, Janson, Alajfi, Zahm)	Session 8: Seismic characterization of carbonate systems (Janson)	

***Note: All sessions are held 8 am to 12 pm CST**

Session 1: Carbonate Reservoir Characterization for EOR, ROZ, and CCUS – I (Kerans and Dommissie)

- Workflows for carbonate reservoir stratigraphic framework construction
- Spectrum of Permian conventional carbonate reservoir models
- Geomodeling methodologies
- Matrix-dominated flow reservoirs (Johnson Unit)

Session 2: Carbonate Reservoir Characterization for EOR, ROZ, and CCUS - II (Kerans, Dommissie, Duncan, and Zahm)

- Dual matrix-fracture karst-modified flow reservoirs (Hobbs)
 - Combined diffuse and conduit karst flow
 - Icehouse isolated platform reservoirs (SACROC & Cogdell)

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- Analogs for isolated platform development
- Combined stratigraphically and diagenetically driven flow reservoirs
- Residual Oil Zone reservoirs (ROZ-EUR)
 - Stratigraphic and petrophysical characterization of a reservoir with ROZ potential
 - Brownfield ROZ (Seminole, Hobbs, Wasson, Vacuum)
 - Greenfield ROZ (Tall Cotton)
- CCUS-EOR reservoirs (Midland Farms, SACROC)
 - Platform and basin reservoir development in Guadalupian systems of the western Midland Basin, Fasken Ranch area
 - Using 3D seismic and geomorphology workflows to illuminate geologic patterns
 - Geomodel construction and integration of petrophysical and seismic properties
- Residual Oil Zone reservoirs (ROZ-EUR)
 - Stratigraphic and petrophysical characterization of a reservoir with ROZ potential
 - Brownfield ROZ (Seminole, Hobbs, Wasson, Vacuum)
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- CCUS-EOR reservoirs (Midland Farms, SACROC)
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 - Geomodel construction and integration of petrophysical and seismic properties

Session 3: Well log interpretation workflows for regional sequence stratigraphy systems - I (Price and Janson)

- Overview of Carbonate Slope profiles: Ramp to Rimmed Shelf
- Well Logs, Mapping Concepts, and Workflows
- Carbonate Slope Characterization: Focus on Permian Basin
- Exercise: Mississippian and Permian Shelf to Basin transects

Session 4: Well log interpretation workflows for regional sequence stratigraphy systems – II (Price and Janson)

- Deep-water carbonates: fans and apron overview
- Mapping Basinal Deposits
- Seismic overview of Permian Basin
- Exercise: West Texas margin architecture

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Session 5: Tight carbonate reservoirs of the Upper Cretaceous (Loucks, Zahm, Male and Lambert)

- Highlights from the GOM Austin Chalk Project
- High-resolution correlation, mechanical stratigraphy and fault interpretations
- Regional productivity in the Austin Chalk with emphasis on fault zone production
- Interactive database of the RCRL Austin Chalk core data

Session 6: Interpretation and characterization of fractured reservoirs (Zahm)

- Natural fractured reservoirs: overview and concepts
- Impact of natural fractures on reservoir performance
- Mechanical stratigraphy interpretation in outcrop, core and well logs
- Importance of reservoir geomechanics on natural fractures
- Integration of concepts and data: Examples from conventional and unconventional reservoirs

Session 7: Mesozoic Carbonates of the GOM Basin (Kerans, Loucks, Janson, Alajfi, Zahm)

- Overview GOM stratigraphy and OAE systems
- GOM platform to basin seismic profiles and shelf margin architecture
- Albian carbonate platforms of south Texas and Mexico El Doctor
- Tight chalk reservoirs and natural fractures of the Upper Cretaceous (e.g. Austin chalks and Buda)

Session 8: Seismic characterization of carbonate systems (Janson)

- Overview of Seismic Interpretation techniques
- Seismic Signature of Platform Types and Depositional Environments
- Exercise: Seismic facies and seismic stratigraphy - NW shelf Australia exercise
- Seismic Signatures of Karst and Diagenesis