# 2021 RCRL Spring Sponsor’s Seminar

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<td>Session 1: Carbonate Reservoir Characterization for EOR, ROZ and CCUS (Kerans, Dommisse, others)</td>
<td>Session 2: Carbonate Reservoir Characterization for EOR, ROZ and CCUS (Kerans, Dommisse, others)</td>
<td>Session 3: Well log interpretation workflows for regional sequence stratigraphy systems (Price and Janson)</td>
<td>Session 4: Permian Seismic Interpretation (Janson)</td>
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<td>Session 5: Tight carbonate reservoirs of the Upper Cretaceous (Loucks, Zahm, Male and Lambert)</td>
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<td>Session 7: Mesozoic Carbonates of the GOM Basin (Kerans, Loucks, Janson, Alajfi, Zahm)</td>
<td>Session 8: Seismic characterization of carbonate systems (Janson)</td>
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*Note: All sessions are held 8 am to 12 pm CST*

**Session 1: Carbonate Reservoir Characterization for EOR, ROZ, and CCUS – I (Kerans and Dommisse)**
- 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, Dommisse, Duncan, and Zahm)**
- Dual matrix-fracture karst-modified flow reservoirs (Hobbs)
- Combined diffuse and conduit karst flow
- Icehouse isolated platform reservoirs (SACROC & Cogdell)
• 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)
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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