

[2021 RCRL Annual Meeting](#)
[October 18-23, 2021](#)

The 2021 RCRL Annual Sponsor's Meeting will be a hybrid meeting. Under current guidelines, we expect to have in person presentations at the BEG facility that will be streamed via Microsoft Teams and recorded. This includes the Core Workshop which will be live streamed and recorded from the BEG core facility.

The RCRL meeting will have three components this year: (1) In person and virtual technical presentations; (2) in person and live-streamed core workshop, and (3) a field trip to the Sacramento Mountains, NM. The technical presentations will be conducted in the mornings and early afternoon of October 18-19 and the core workshop will be in the afternoons of the 18-19th.

The technical content of the presentations will focus on: (1) reservoir characterization of Permian systems for improved CCUS applications; (2) Paleozoic structure and stratigraphy of the Permian Basin and nearby Sacramento Mountains; (3) Mesozoic stratigraphic systems of GOM, Mexico and southern France, and (4) reservoir description and fracture modeling of the Austin Chalk.

The RCRL field trip to the Sacramento Mountains will be October 20-23, 2021. We plan to fly into El Paso on Wednesday morning (Oct. 20) and depart from the ELP airport at 10 am. We will travel north to examine the structural and stratigraphic systems of the Ordovician through Permian systems exposed in the Sacramento Mountains. We will return to the El Paso airport by 4 pm on Saturday, Oct. 23.



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Monday, Oct. 18, 2021 – Permian Basin Stratigraphy, Seismic Geomorphology, Virtual Reality
BEG 130, VR Room and Microsoft Teams

- 8:00 **Zahm** - Introduction
- 8:15 **Janson and Price** - Applications of Seismic Geomorphology to Permian Basin Shelf to Basin Systems
- 8:45 **Price** - Comparison and Reassessment of Middle-Late Mississippian Deposits across North America
- 9:15 **RCRL team** - Secular Stratigraphic/Sediment Supply Trends and Evolution of the Permian Basin Succession
- 10:00 Break**
- 10:15 **Domuisse and Price** - Linking Depositional Environment Interpretations and Stratal Architecture to Source Rock Richness and Mechanical Property Distribution in the Delaware Basin
- 10:45 **Kerans, Price, Domuisse, Janson, Loucks** - Beginning of the End: Terminal Exposure of the Clear Fork/Victorio Peak Platforms and Onset of Latest Leonardian Global Transgression with Significance for Basin Fill Patterns
- 11:30 **Janson and Price** - Wolfcampian Fan in NW Midland basin and/or SE Lea County (if data available)
- 12:00 Lunch Break**
- Core session and Virtual Reality – BEG 130, BEG 131, Teams and Zoom (core)**
- 1:00 **Domuisse** - Applying New Virtual Reality Tools to RCRL Outcrop and Subsurface Data
- 1:30 **Price, Janson, Kerans** - Use of Public Data and Free Software for Integration of Outcrop, Subsurface, and VR Applications, Sierra Diablo Mountains, TX
- 2:00 Break**
- 2:15 **Janson and Price** –Delaware (Pecos Co.) and Midland (Martin Co.) basinal cores
- 3:30 **Refreshments and Field Trip Preview**
- 3:45 **Kerans, Eljalafi, Zahm, Spangler, Rendall, Syzdek, Janson** - Field Trip Preview - Outcrop Analogs for Ancestral Rocky Mtns. Orogen, Timing, and Structural Patterns Exposed in the Sacramento Mtns, NM
- 4:30 **Kerans, Domuisse, Rush, Zahm** - Guadalupe Mountains Virtual Field Trip



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[Tuesday, Oct. 19, 2020– Austin Chalk and Mesozoic Plays GOM, Mexico, Europe](#)
[BEG 130, VR Room and Microsoft Teams](#)

- 8:00 **Zahm** - Introduction
- 8:05 **Loucks and Reed** – Volcanic activated mass-wasting complex in the Upper Cretaceous Upper Austin Chalk strata in South and Central Texas, U.S.A
- 8:35 **Loucks, Ko, Sivil, Larson, Zahm, and Lambert** - Geological insights into the Upper Cretaceous carbonate stratigraphic section in the South Texas Maverick basin using a long continuous core
- 9:05 **Zheng, Loucks, Kerans, Buatois, Mangano, Ko** – Benthic oxygenation history of south Texas during Austin Chalk Group deposition: an integrated ichnologic, sedimentological, and geochemical study
- 9:35 **Break**
- 9:40 **Male and Zahm** – Austin Chalk Facies Predictions from Core and Wire Line Logs
- 10:10 **Zahm** – Geomechanical fracture modeling using UCS and bedding character for natural and hydraulic fracture models, Austin Chalk
- 10:40 **Janson** – Seismic architecture of Lowermost Cretaceous platform, Eastern Gulf of Mexico Basin
- 11:10 **Eljalafi** – Architectural Elements of Channelized Slope Deposits Associated with Steep Rimmed Carbonate Platforms, Seismic Scale Outcrop Analogs from the mid-Cretaceous of Central Mexico.
- 11:40 **Break**
- 11:45 **Janson** – Late Jurassic to Early Cretaceous slope and basinal deposits in Eastern GOM and outcrop analogs in the Alps
- 12:15 **Fallatah** - Depositional Partitioning of the Arabian Plate’s Cretaceous Mixed Siliciclastic-Carbonate System and Implications for Sequence Stratigraphy
- 12:45 **Lunch Break**



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[Tuesday, Oct. 19, 2021 – Core Workshop, Day 2 – BEG 130, BEG 131, Teams and Zoom \(core\)](#)

1:45 Introduction to Cores (BEG 130, VR)

Loucks - Two core examples of the Austin Chalk section in the area of the San Marcos Arch, south-central Texas: Martin Schefts No. 1 Clark in Caldwell County and Tesoro No. Valcher in Wilson County

Hattori – The Early Cretaceous Pettet Formation of East Texas: Key Facies, Stacking Patterns, and Reservoir Facies Distribution

Janson, DeJarnett and Loucks – Introduction to cores of Pre-salt lacustrine deposits in the South Atlantic Margin, Angola

4:30 Core Workshop Ends



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Wednesday, Oct. 20, 2021: Field Trip – Sacramento Mtns, NM

Our initial sign up is one person per company, but we will create a backup list for additional interested members. We will fill the trip if possible.

We are planning to run a RCRL field trip to the Sacramento Mountains to visit some classic locations and view new fieldwork on an interesting interval of the Wolfcampian that highlights the syntectonic transition between the Late Pennsylvanian to Early Permian. The outcrop exposures will be illustrative to seismic interpreters and well log correlation experts, as it will show the dynamic syntectonic stratigraphy near a major uplift and an active anticlinal fold (e.g., western Central Basin Platform).

Please note that due to Covid-19 we will not be providing lunch or beverages.
Please arrange to have your own daily food and water in the field.

Oct. 20, Day 1 – Please plan to **rent your own vehicle** or coordinate with people that have similar COVID 19 travel policies. Vehicles should be SUVs with clearance.

10 am depart from ELP in separate vehicles and drive to Dog Canyon (Sac Mtns) with a Lower Paleozoic walk through to a Bug Scuffle overlook. Drive to Muleshoe Overlook and discussion. Drive Hwy 82 and Fresnal Fault and Dry Canyon Overlook to discuss regional structure and stratigraphy.

*Hotel in Alamogordo. No room block, just **make arrangements on your own**. RCRL group will be at the Holiday Inn Express, 100 Kerry Ave, Alamogordo, NM 88310*

Oct. 21, Day 2 – Traverse and discussion of revised stratigraphic framework in Alamo Canyon. Examination of mechanical stratigraphy and fracture development of Teepee Mound and view of potential Mississippian structure and folding. Second view of the Ordovician to Mississippian section at the Missile Museum. Stratigraphy and Syndepositional fracture development within the Pennsylvanian at Yucca Canyon. Return to hotel.

Oct. 22, Day 3 - Main Bursum area, fault proximal sections on Hwy 82 and Fresnal Canyon road, Sand Trap area, and walk through key sections such as Cottonwood. This area examines syntectonic Wolfcampian stratigraphy within a structurally controlled basin.

Oct. 23, Day 4 - Scorpion Mound section complete, lower and upper profiles. Return to ELP by 4 pm.

