



Wednesday, May 4th, 2022

|                        |          |                                   |                                       |   |  |
|------------------------|----------|-----------------------------------|---------------------------------------|---|--|
| W1                     | 8:00 AM  | Tom Ewing                         | Frontera Exploration Consultants      | Session 5 - Seismicity and Rock Mechanics | <i>Basement Framework of the West Texas Basin, and the Inception of the Tobosa Basin</i>   |
| W2                     | 8:25 AM  | Katie Smye                        | Bureau of Economic Geology (BEG)      |   | <i>Reservoir Dynamics and Injection-Induced Seismicity in the Permian Basin</i>  |
| W3                     | 8:50 AM  | Dino Huang                        | Bureau of Economic Geology (BEG)      |   | <i>Seismicity and seismogenic features of the Midland Basin and the Central Basin platform</i>   |
| W4                     | 9:15 AM  | Roberto Suarez-Rivera             | Von Gonten Laboratories               |   | <i>Resolving the rock geologic structure with cm-resolution measurements: How do we proceed with modeling at that scale?</i>   |
|                        | 9:40 AM  | Duc Lam                           | Unconventional Subsurface Integration |   | <i>Estimating Fracture Interference Factors by applying Neural Networks on Pre-run Numerical Simulations- Two Case Studies in the Permian: Strain Ranch 12- Martin County and Dominator 25, Lea County</i> |
| W5                     | 10:05 AM | Break - Coffee Bars Sponsored by: |                                       |   |                                      |
| W6                     | 10:25 AM | George Asquith                    | Texas Tech University                 | Session 6 - Petrophysics and Geochemistry | <i>A New Approach to Evaluate Low Resistivity Pay Zone in the Permian Spraberry Shaly Sandstone</i>  |
| W7                     | 10:50 AM | Jana Bachleda                     | RevoChem                              |   | <i>Optimizing Landing, Stacking and Spacing in Permian Basin Using Geochemical Fingerprinting Technology</i>   |
| W8                     | 11:15 AM | Gary Rice                         | GeoFrontiers                          |   | <i>Exploration for Hydrogen and Helium</i>   |
| W9                     | 11:40 AM | Joshua Lewis                      | UTEP                                  |   | <i>Analytical Method Development for Quantification of Critical and Valuable Elements in Produced Waters</i>   |
| W10                    | 12:05 PM | <b>Andrew Quarles</b>             | <b>Endeavor Energy Resources</b>      |   | <i>Evolving strategies for horizontal well development in the Midland Basin, TX: an operator's perspective</i>   |
| W11                    | 1:20 PM  | Shane Prochnow                    | Chevron                               | Session 7 - Reservoir Engineering         | <i>Using subsurface machine learning to spatially evaluate a proxy for stress shadow effect of unconventional reservoir completion activity on production</i>  |
| W12                    | 1:45 PM  | Yoshi Pradhan                     | Endeavor Energy Resources             |   | <i>Observed GOR Trends in Liquids Rich Unconventionals</i>   |
| W13                    | 2:10 PM  | Mathias Carlsen                   | Whitson                               |   | <i>Numerical RTA Extended to Complex Fracture Systems</i>  |
| W14                    | 2:35 PM  | Bob Trentham                      | UTPB                                  | Session 8 - San Andres / CCUS             | <i>The Carbon Utilization and Storage Project of the Western USA: A View from the Oil Patch</i>  |
| W15                    | 3:00 PM  | Mitchell Schneider                | Colorado School of Mines              |   | <i>Quantifying Rock Characteristics in the San Andres Formation that Promote CO2 Sequestration, Permian Basin, USA</i>   |
| W16                    | 3:25 PM  | Eric Brain                        | UTPB                                  |   | <i>Reservoir Characterization of the Lower San Andres Residual Oil Zone for Utilization and Storage of Carbon Dioxide in Cochran and Yoakum Counties, Texas</i>  |
| W17                    | 3:50 PM  | Matthew Fuller                    | UTPB                                  |   | <i>Understanding the Geochemistry of the Limestone-Dolostone Transition in the Residual Oil Zone in the lower Permian San Andres Formation, Permian Basin, Texas</i>                                       |
| W18                    | 4:15 PM  | Laura Ortiz                       | University of Oklahoma                |   | <i>Facies variability and geomorphological analysis of the Grayburg-San Andres interval in southwestern Midland basin, Texas</i>   |
| W19                    | 4:40 PM  | <b>Ben Davis, John Stroud</b>     |                                       |   | <i>Closing Remarks</i>   |
| <b>Morning Posters</b> |          |                                   |                                       |   |  |
| P6                     | Wed AM   | Ayomide Apata                     | UTPB                                  |   | <i>Spatial Analysis of Groundwater Quality using Total Dissolved Solids (TDS) Measurements in the Permian Basin, Texas</i>   |
| P7                     | Wed AM   | Alex Washburn                     | Texas Tech University                 |   | <i>Age, temperature, and carbonate source of bedding parallel fibrous calcite veins in petroleum source rocks of the Central Montana Trough</i>  |
| P8                     | Wed AM   | Alton Brown                       | Independent                           |   | <i>Formation of High Helium Gases: A Guide for Explorationists</i>   |