



# TECHNICAL SESSIONS



**Opening Ceremony: Monday May 8, 2023, 8:00am - 8:30am**

8:00am Craig Reynolds- General Chair  
History of the NTGS- 100th Anniversary 1923-2023

Jerry Hickman- President SWS-AAPG  
Award Presentation

**Keynote Speaker: Monday May 8, 2023, 8:30am - 9:30am**

8:30am The Assembly of Pangea, a view from Laurentia- Paleozoic Orogenies and their Impact on Basin Evolution and Petroleum Systems, Kurt Rudolph

9:30am BREAK, Exhibit Hall

**Oral Session 1: Monday, May 8, 2023, 10:00am – 11:50am**

10:00am Anadarko “Super” Basin: Eight Key Characteristics to Understand Its Unique Productivity, **Rick Fritz**

10:25am The Birth and Tectonic Evolution of the Anadarko Super Basin, **Dr. Molly Turko**

10:50am Applications of Organic Applications of Organic Geochemistry to Modeling Hydrocarbon Charge Events in Source-Adjacent Reservoirs: STACK Case Study, **Dr. Carl Symcox**

11:15am The Nascent Commodity Super Cycle, **William Demis**

11:40am All Convention Luncheon  
Development of the Rubiales Field Meta Department, Colombia  
**Allen Lazenby**

**Poster Session 1: Monday, May 8, 2023, 10:00am –12:00pm\***

Establishing a preliminary correlation of Silurian units in the Permian Basin region (Texas, USA) through bio-chemostratigraphic analysis of cores.  
**Andres De la hoz**

3-D Structural Mapping and Seismic Attributes Analysis for Hydrocarbon Prospectivity of Semliki Basin, Western Branch of the East African Rift System  
**Bright Osuagwu**

Characterize Water Infiltration Pathways in Central Texas Cretaceous Formation using LiDAR Remote Sensing, **Kathryn Brown**





# TECHNICAL SESSIONS



## Oral Session 2: Monday, May 8, 2023, 1:15pm – 5:10pm

- 1:15pm Geochemical Drainage Data Reveal Key Controls on Production in the Anadarko Basin STACK Play, **Jana Bachleda/ Bob Aylsworth**
- 1:40pm Geochemistry and Petroleum Systems Analysis of Anadarko Basin to Better Understand Hydrocarbon Phase Behavior, Maturity and Migration in Stack and Scoop Area  
**Dr. Wahid Rahman**
- 2:05pm Geochemical Exploration Fluorescence is the Gateway to Liquid Hydrocarbons, **Dr. Gary Rice**
- 2:30pm West Texas (Permian) unconventional resources: Fifteen years of exploration, discovery, development, and production, what we have learned, and where we are headed  
**Bill Fairhurst**
- 2:55pm BREAK, Exhibit Hall
- 3:30pm Bell Canyon Toe-of-Slope Deposition on the Western Margin of the Delaware Basin: Integration of Outcrop and Subsurface Data, **Dr. Alton Brown**
- 3:55pm Delaware Basin Horizontal Wolfcamp Case History: HTI Fracture Analysis to Avoid H<sub>2</sub>S and Extraneous Water Linked to Graben Features, **Scott Cook**
- 4:20pm Identifying mass-transport deposits using image logs and core in Bone Spring and Wolfcamp Formations, Delaware Basin, **Josh O'Brien**
- 4:45pm Overlooked Influence of Bottom Currents in Early to Middle Permian Strata of the Midland and Delaware Basins, West Texas and Southeast New Mexico, **Buddy Price**

## Poster Session 2: Monday, May 8, 2023, 3:00pm – 5:10pm

- ☐ Using seismic data to understand rift evolution in Magma Poor Rifts. An example of the Albertine Rift., **Damilola Ola**
- ☐ Groundwater Recharge Estimation based on Drip Loggers and LiDAR Data: Edwards Aquifer, Central Texas, **R. Remie**
- ☐ Limb bone lost to time: Understanding the function of the cleithrum in Dimetrodon  
**Lauren Stancik**





# TECHNICAL SESSIONS



## Oral Session 3: Tuesday, May 9, 2023, 8:00am – 12:00pm\*

- 8:00am Petroleum Geology of the Lake Kickapoo East (Caddo) Field, Archer County, Texas  
**Dennis Browning**
- 8:25am Barnett Shale Play, The Petroleum industry's Shale 101, **Dan Steward**
- 8:50am Lithological and Geochemical Control on Varied Reservoir Heterogeneity and Fluid Saturation in the Mississippian Barnett Shale, Fort Worth Basin, Texas: From Late Oil to Dry Gas Window, **Dr. Lucy Ko**
- 9:15am Can Adding a Fluid Factor Aid in Understanding Induced Seismicity?, **Brian Rader**
- 9:40am Contrasting Siliciclastic-Dominated Cores from the Middle Pennsylvanian (Desmoinesian) Strawn Formation, East Kent County, TX: Wallace Ranch #1 and #2  
**Dr. Max Pommer**
- 10:05am BREAK, Exhibit Hall
- 10:45am Regional and Local Variability in Lowstand Valley-Fill and Deltaic Deposits in the Tannehill Sandstone (Cisco Group), Eastern Shelf of the Permian Basin, **Bill Ambrose**
- 11:10am Facies characterization of Wolfcamp D along a transect from the Eastern Shelf to the Midland Basin, **Dr. Toti Larson**
- 11:35am Where is all of this Gas going to come from? Expect a Natural Gas price "break-out" in mid-2023., **Donald Muth**
- 12:00pm **DPA Luncheon**  
Q & A with AAPG Legend., **James A. Gibbs**

## Poster Session 3: Tuesday, May 9, 2023, 10:00am – 12:00pm\*

- Geology of the Lake Grapevine Spillway; a Sedimentologic, Ichnologic and Chemostratigraphic Evaluation of the Depositional Environments of the Upper Woodbine in North Central Texas, **Bo Henk**
- Geology of the Lake Grapevine Spillway; a Sedimentologic, Ichnologic and Chemostratigraphic Evaluation of the Depositional Environments of the Upper Woodbine in North Central Texas, **Henry Henk**





# TECHNICAL SESSIONS



## Oral Session 4: Tuesday, May 9, 2023, 1:15pm – 5:00pm

- 1:15pm Complex clastics and associated carbonates of the Strawn Formation: Re-evaluation of deposystem interpretations from core and outcrop-based investigations, **Dr. Peter Flaig**
- 1:40pm Carbonate and mixed carbonate-clastic facies variability across the Upper Strawn Formation on the Eastern Shelf: Preliminary core-based observations, **Dr. Kelly Hattori**
- 2:05pm An Underexplored Cisco Carbonate Oil Play in the Palo Duro Basin, **Eric Radjef**
- 2:30pm BREAK, Exhibit Hall
- 3:00pm Carrier Beds as Reservoirs, **Dr. John Breyer**
- 3:25pm Discovery of the Flat Top JC (Strawn, Upper) Field, Haskell, Jones & Stonewall Cos., Texas. How we got there and what we found., **Gregg Norman**
- 3:50pm The Application of Machine Learning Technology to Understand the Subsurface – Carbonates, **Deborah Sacrey**
- 4:15pm Delta- ( ): Exploring Applications of Vertical Variations in Bulk Volume Water, **Dr. Steven Henderson**
- 4:40pm Where The Sidewalk Ends: Delineation and characterization of an unconventional reservoir's commercial boundary by appropriate modification of Herron's permeability model, Bakken-Three Forks play, Dunn Co., ND., **Joe Bauman**

\* Poster Presenters will have their posters displayed on Monday from 8:00am-12:00pm with presenters at their posters from 10:00am-12:00pm. Monday afternoon poster session will have posters displayed from 1:00pm-5:00pm with presenters at their posters from 3:00pm-5:00pm. Tuesday morning presenters will have their poster displayed from 8:00am-12:00pm with presenters at their poster from 10:00am-12:00pm.