

2024

# SOUTHWEST SECTION AAPG ANNUAL CONVENTION

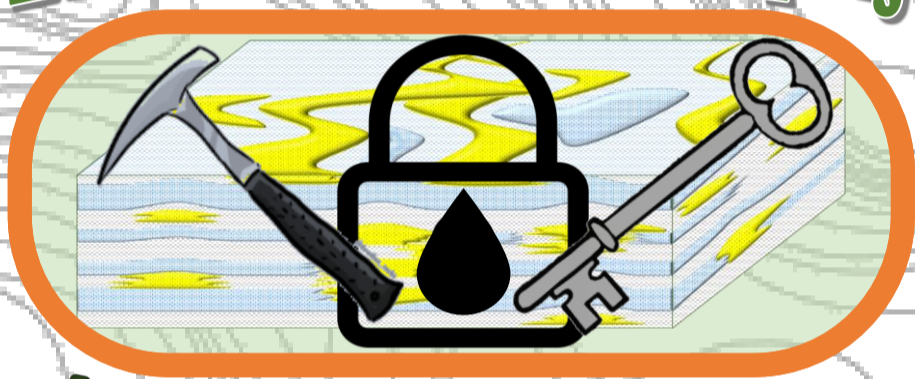


Hosted by the  
*Abilene Geological Society*



**Abilene Convention Center**  
**April 27<sup>th</sup> – April 30<sup>th</sup>**

## Energy Stratigraphy



## Layers of Energy

Discovering the Keys to a Secure  
Energy Future in the “Key City”

## Convention Details

- ❖ **Saturday April 27<sup>th</sup> – Field Trip** led by Angelo State Faculty and friends  
*Stops in Taylor, Nolan, Mitchell and Coke counties will feature Permian-age San Angelo & Leonard Formations, Cretaceous reef & shoal deposits and fluvial-estuarine sandstones. A highlight will be exploring the Cup and Saucer, a crater or sinkhole exposing Triassic Dockum Group and Quaternary volcanic ash.*
- ❖ **Sunday April 28<sup>th</sup> – SWS-AAPG Convention Short Course**  
*Reservoir Engineering for Geologists - Introduction to Reservoir Engineering, Past and Future*  
*By: Dwayne Purvis, P.E.*
- ❖ **Sunday April 28<sup>th</sup> Evening Icebreaker – 5 to 8 pm**  
Help us kick off the 2024 SWS-AAPG Convention with entertainment and networking
- ❖ **Monday & Tuesday April 29<sup>th</sup>-30<sup>th</sup> – Technical Sessions**  
We look forward to an exciting schedule of speakers and posters related to all aspects of “Energy Stratigraphy – Layers of Energy”  
Keynote Speaker – Dr. Charles Ivey – “Energy of Yesterday, Today & Tomorrow”  
DPA Luncheon – Dr. Dick Bishop “Giant & Super Giant Fields in W.TX and Mid-Con Compared to Global Super Giants”  
All Convention Luncheon – Doug Robison “Future of Atomic Energy”
- ❖ **Monday April 29<sup>th</sup> Evening Social – 6 to 9 pm**  
Join us in Downtown Abilene at the Peacock Patio for dinner, drinks and some great entertainment, then take a walk through downtown and enjoy the sculpture gardens and the other nightlife!

To Register for the convention or learn more visit:

<https://www.zeffy.com/en-US/ticketing/cce83163-b704-49c4-87b7-9bf7711ccd9e>



## Schedule of Events

### AAPG SWS 2024 CONVENTION - Abilene Civic Center

#### Saturday, April 27, 2024

8:00am - 6:00pm      **Field Trip – Eastern Shelf Sandstones**      Registration 7:00am - 8:00am

#### Sunday, April 28, 2024

8:00am - 4:00pm      **Short Course–Intro to Res Eng/Past & Future** Registration 7:00am - 8:00am

**Noon**      **Southwest Section Board Meeting**

1:00pm - 5:00pm      Convention Registration / Exhibitors Setup

5:00pm - 8:00pm      Convention **Ice Breaker** at Civic Center

#### Monday, April 29, 2024

7:00am - 8:00am      Speakers/Moderators/Judges Breakfast      Registration - All Day

7:00am - 8:00am      **House of Delegates Breakfast**

8:00am - 8:30am      **Opening Ceremonies**

8:30am - 11:40am      Technical Sessions

12:00pm - 1:00pm      **DPA Luncheon- Dr. Dick Bishop**

1:15pm - 5:10pm      Technical Sessions

6:00pm - 9:30pm      Monday Evening Social Event- Peacock Patio/Matera Grill Downtown Abilene

Dinner & Entertainment

#### Tuesday, April 30, 2024

7:00am - 8:00am      Speakers/Moderators/Judges Breakfast      Registration 7:00am – 11:00am

8:00am - 11:50pm      Technical Sessions

12:00pm - 1:00pm      **All-Convention Luncheon – Douglass Robison, Natura Resources**

1:15pm – 4:40pm      Technical Sessions

2024

**SOUTHWEST SECTION AAPG  
ANNUAL CONVENTION**

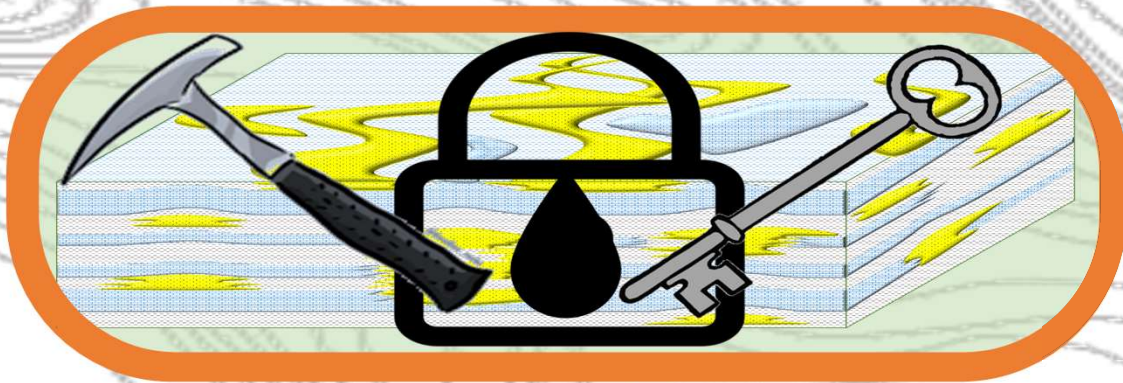


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**Abilene Convention Center  
April 27<sup>th</sup> – April 30<sup>th</sup>**

# Energy Stratigraphy



## Layers of Energy

### Sponsorships Available

The 2024 SWS-AAPG convention will be hosted by the Abilene Geological Society and will be held at the Abilene Convention Center April 27<sup>th</sup>-30<sup>th</sup>. Current plans include a field trip on Saturday, a short course on Sunday, an Icebreaker Sunday evening, a social event Monday evening, and technical presentations all day Monday and Tuesday.

Past Southwest Section meetings in Abilene have been well attended and should attract some 200 decision making geologists and industry professionals, primarily from Texas, New Mexico, and Oklahoma. The AGS is currently seeking industry sponsors for this event. Six levels of sponsorship are available: Platinum \$10,000, Diamond \$5,000, Gold \$2,500, Silver \$1000, Bronze \$500, and Patron \$250. Contributions at any level help create a profitable and successful meeting. Sponsors will have their names prominently displayed at both the entrance to the Convention Hall, on the main screen in the lecture halls, on our pocket program and throughout the meeting halls.

2024

**SOUTHWEST SECTION AAPG  
ANNUAL CONVENTION**



*Hosted by the  
Abilene Geological Society*



**Abilene Convention Center  
April 27<sup>th</sup> – April 30<sup>th</sup>**

**• Sponsorship Levels**

**Platinum \$10,000**

**Silver \$1,000**

**Diamond \$5,000**

**Bronze \$500**

**Gold \$2,500**

**Patron \$250**

**Sponsor Information:**

Name, Name of company or Foundation Name:

\_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Daytime Phone: \_\_\_\_\_

Email Address: \_\_\_\_\_

**Pledge Information:**

I/We pledge to the SWS-AAPG Annual 2024 Convention at the sponsorship level of

\$ \_\_\_\_\_

Name of company: \_\_\_\_\_ Date: \_\_\_\_\_

By: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Thank you for investing in the success of the SWS-AAPG Annual Convention and the transfer of intellectual knowledge provided at this conference.

Your participation in the SWS-AAPG Annual Convention is deeply appreciated

Checks are payable to the **Abilene Geological Society-2024 SWS Convention**

P.O. Box 974, Abilene, Texas 79604

The AGS is a 501(C)6 member based non-profit organization



# 2024 ANNUAL SWS-AAPG CONVENTION



## *Technical Sessions*

### Keynote Address

*"Energy of Yesterday, Today & Tomorrow"*

Keynote Speaker - Dr. Charles Ivey

### Eastern Shelf

*"Facies Variability and Sandstone-Body Architecture of Slope and Basin Floor Systems, Wolfcampian Cisco Group in the Eastern Shelf of the Permian Basin"*

Speaker - Bill Ambrose

*"The Strawn Formation of the Eastern Shelf: New insight into autocyclic and allocyclic drivers and depositional system heterogeneity"*

Speaker - Kelly Hattori

*"Depositional characterization of an early Wolfcampian reservoir (Tannehill) by integrating well-log and seismic facies analysis, Eastern Shelf of the Permian Basin, Kent County, North-Central Texas"*

Speaker - Fritz Palacios

*"The Great Value of Detailed Insoluble Residue Studies in the Ellenburger for Detailed Zonation and Reservoir Characteristics"*

Speaker - Ron Shaw

*"Re-exploring the Eastern Shelf of the Midland Basin"*

Speaker - Lowell Waite



# 2024 ANNUAL SWS-AAPG CONVENTION



## *Technical Sessions*

### Permian Basin

*"The Permian Basin and the Oil Industry; Things you might want to know.....or not!"*

Speaker - Mike Party

*"West Texas Geological Society 100 Year Anniversary: A Core Workshop of Early Permian Basin Field Discoveries"*

Speakers - Dr. Bob Lindsay & Dr. Bob Trentham

*"What we Think We Know about Induced Seismicity in the Permian Basin"*

Speaker - Peter Hennings

*"Depositional environment construction of the Fusselman Formation in the Southern Permian Basin, based on core description and well logs: Cross-plot analysis and Machine learning as relevant tools"*

Speaker - W. Andres De la Hoz

*"Basinwide subsurface stratigraphic architecture and wireline facies distribution of Leonardian strata, Midland Basin, West Texas"*

Speaker - David Carr

*"Evaluation of Ordovician to Mississippian rocks as unconventional shale prospects in the Midland Basin"*

Speaker – Amanda Calle

*"Regional pore pressure variations of the Wolfcamp, Dean, and Spraberry formations of the Midland Basin, integrating petrophysical, reservoir, and completions data"*

Speaker – Shuvajit Bhattacharya

*"How to boost Stratigraphy. An example from the unconventional plays in the Permian Basin."*

Speaker – Daniel Minisini

*"The Texas Permian Superbasin Geomodel: Examples from regional and field-level outcrop-to-subsurface reservoir characterization studies"*

Speaker: Robin Domisse



# 2024 ANNUAL SWS-AAPG CONVENTION



## *Technical Sessions*

### Geo-Insight

*"The Tectonic Source of the Pennsylvanian Orogeny in the Midcontinent, Permian, and Beyond"*

Speaker - Molly Turko

*"Lower Pennsylvanian Faulting in Central Texas -- To Llano and Beyond!"*

Speaker - Tom Ewing

*"Characterizing Natural and Hydraulic Fractures in Energy Projects"*

Speaker - Julia Gale

*"Comparison of Texas Shale Basins – Geologic characteristics & implications for production of the Barnett, Eagle Ford, Haynesville/Bossier, Wolfcamp/Bone Springs, Tuscaloosa Marine Shale"*

Speaker - Ursula Hammes

*"Basin-scale resource assessment of unconventional reservoirs: An integrated approach"*

Speaker - Tim McMahon

*"Geoheritage and the Texas GeoSign Project"*

Speaker - Linda McCall

*"Paradise Machine Learning Technology – Understanding the Sub-surface in Detail"*

Speaker - Deborah Sacrey

*"The Shale Bust? What do you do with a horizontal well after the first 3-5 years?"*

Speaker - Laura Freeman

*"Navigating the ESG Landscape for Long-Term Prosperity"*

Speaker - Keila Diamond

*"Drone Based Magnetometry Method for The Application in Geophysics"*

Speaker – Juan Ortega

***Additional papers will be added as abstracts are received***



# 2024 ANNUAL SWS-AAPG FIELD TRIP



## Field trip leaders:

**Don Dunbar, Steve Shaw, Bruce Swartz, Joe Satterfield, and Charlie Teague, with Angelo State University-Geosciences Department Participation**



**Saturday, April 27<sup>th</sup> 8am-6pm**

**Registration will begin 7am - Abilene Convention Center, North Parking Lot**

This field trip will feature stops in Taylor, Nolan, Mitchell and other counties to view Permian San Angelo Formation fluvial facies, Permian Leonard limestone, Cretaceous dolostone, ooid shoal, rudistid reef facies, and basal Cretaceous fluvial-estuarine sandstones. A highlight will be exploring the Cup and Saucer, a crater or sinkhole exposing Triassic Dockum Group and Quaternary volcanic ash. The Cup and Saucer was perhaps last visited by geologists on a 1962 San Angelo Geological Society Field Trip.

A catered barbeque lunch will be served.





# 2024 ANNUAL SWS-AAPG SHORT COURSE

Sunday, April 28<sup>th</sup> 8am-4:30pm



## *“Introduction to Reservoir Engineering, Past and Future”*

**Dwayne Purvis, P.E.**

Founder & Principal Advisor  
Purvis Energy Advisors



The focus of exploration and production has changed, with it so has the practice of petroleum engineering. And it is likely to continue to evolve as shale plays mature and new forms of subsurface energy ramp up. This highly interactive one-day course will present a range of topics, first with a Q&A then followed by a systematic explanation to finish unpacking key concepts. Bring the questions you've been wanting to ask an engineer about topics such as:

Past and Present:

- + Six methods to estimate reserves and how they work
  - + Darcy's law and its drivers
  - + Decline curve analysis as curve-fitting
- + Well interference and misuse of drainage radius
- + Cash flow analysis and economic yardsticks
- + Key drivers for forecasting shale production
  - + Meaning and expectations of b-factors
- + Economics in the last 20 years of field life
- + How to put an engineer in an ethical bind

Future:

- + Potential for re-use of old wellbores
  - + Science of carbon sequestration
- + Potential for geothermal resources



# 2024 ANNUAL SWS-AAPG ICEBREAKER AND SOCIAL EVENT



**Sunday April 28<sup>th</sup> - 5pm to 8pm**  
**Abilene Convention Center –**  
**Conference Center**

*Help us kickoff the 2024 SWS-AAPG Convention with the traditional icebreaker, browse through the exhibits hall and visit with our exhibitors. Snack on tasty hors d'oeuvres while meeting old and new friends! Enjoy the musical stylings of local Texas country artist, Caleb Sutton.*

*Drink tickets and Cash Bar, Admission with name badge.*



**Social Event - Monday Evening 6pm**  
**Peacock Patio - 536 Hickory Street**

Make sure to get a ticket to enjoy an evening of fun and friends at the Peacock Patio, a unique Abilene cocktail bar and outdoor space. Grab a drink and relax by the 44ft fountain. Delicious eats from Matera Bar & Grill will hit the spot while you enjoy the atmosphere and maybe play some games on the patio.

Singer/songwriter duo, Matt and Michelle Ellis, will provide the soundtrack of the evening with their bluesy touch on some classic hits as well as performing their own songs.





## Presents

### **ROCK SOLID:** *Teaching with Energy*

The AAPG-Southwest Section 2024 Convention in Abilene Texas is sponsoring an Earth Science/Energy workshop for area K-12 STEM teachers. Resources and activities are aligned to the 24-25 TEKS.

The mission of the workshop is to enrich teacher knowledge and provide standards-correlated content to help educators feel more comfortable teaching earth science and energy content.

Teachers will also learn about STEM career opportunities in earth science and energy industries.

+ REGISTRATION

[bit.ly/3Un7WhD](https://bit.ly/3Un7WhD)



## Date and Time

**Saturday, April 20th**  
**8:00 am - 4:00 pm**

## Location

**Hardin-Simmons University**  
**Houston-Lantrip / William Watt**  
**Matthews Conference Center**  
**917 Lineberry Blvd, Abilene, Texas 79601**

## Presenters

**Sabrina Ewald**

The University of Texas at Austin  
Hildebrand Dept. of Petroleum  
and Geosystems Engineering

**Dr. Jon Olson**

The University of Texas at Austin  
Hildebrand Dept. of Petroleum  
and Geosystems Engineering

## Cost

This workshop, sponsored by AAPG-SWS and the Abilene Geological Society, is offered to teachers for FREE, with a \$20 refundable deposit to reserve your spot.

## Meals

- Coffee and light breakfast will be provided from 7:15 am to 7:45 am to kick off a day of fun!
- Lunch is included and refreshments will be provided throughout the day.

## CPE Hours

- Upon completion of the workshop, each participant will receive a workshop certificate providing 8 CPE hours.
- The University of Texas at Austin is a TEA-approved provider.

## ADDITIONAL INFORMATION

Attendance to this workshop will also allow the opportunity for teachers to join the SWS-AAPG convention field trip, happening April 27th for those interested. Space is limited and field trip will be a \$75 cost. Additional CPE hours available for field trip participants.



## Hotel Information

Convention Site: Abilene Convention Center, 1100 N 6<sup>th</sup> St, Abilene Tx 79601

### A. DoubleTree by Hilton

100 yards from the Abilene Convention Center

Abilene Downtown Convention Center

500 Cypress Street

Abilene, Texas

(325)999-1878

\$174 USD per night plus tax single/double

Code: CDTSWWS

<https://www.hilton.com/en/book/reservation/rooms/?ctyhocn=ABIDTDT&arrivalDate=2024-04-26&departureDate=2024-05-01&groupCode=CDTSWS&room1NumAdults=1&cid=OM%2CWW%2CHILTONLINK%2CEN%2CDirectLink>

Last Day to book: March 28, 2024

### B. Holiday Inn Abilene

3.1 miles from the Abilene Convention Center

North College Area

325-673-1400

3525 W Lake Rd, Abilene, TX 79601

Rate: \$129.00 plus tax per night

Room Type: Single King or Double Queen

[https://www.ihg.com/holidayinn/hotels/us/en/abilene/abinu/hoteldetail?fromRedirect=true&qSrt=sBR&qIta=99801505&icdv=99801505&qSIH=ABINU&qGrpCd=AAP&setPMCookies=true&qSHBrC=HI&qDest=3525%20West%20Lake%20Road%2C%20Abilene%2C%20TX%2C%20US&srb\\_u=1](https://www.ihg.com/holidayinn/hotels/us/en/abilene/abinu/hoteldetail?fromRedirect=true&qSrt=sBR&qIta=99801505&icdv=99801505&qSIH=ABINU&qGrpCd=AAP&setPMCookies=true&qSHBrC=HI&qDest=3525%20West%20Lake%20Road%2C%20Abilene%2C%20TX%2C%20US&srb_u=1)

Last Day to book: April 16, 2024

### C. Home2Suites

5.1 miles from the Abilene Convention Center

by Abilene Northeast

2109 Scottish Rd. - Abilene, TX 79601

Hotel: (325) 677-1100

\$149 USD per night plus tax

Room types: King Suite, Double Queen Suite, King or Double Queen

<https://www.hilton.com/en/book/reservation/deeplink/?ctyhocn=ABILNHT&groupCode=CHTAAP&arrivaldate=2024-04-26&departuredate=2024-04-30&cid=OM,WW,HILTONLINK,EN,DirectLink&fromId=HILTONLINKDIRECT>

Last Day to book: April 13, 2024

## D. Courtyard/TownePlace Suites

5.1 miles from the Abilene Convention Center

by Marriott Abilene Northeast

2141 Scottish Rd. - Abilene, TX 79601

Hotel: (325) 673-0400

\$149 USD per night

Room types: King Suite, Double Queen Suite, King or Double Queen

<https://www.marriott.com/event-reservations/reservation-link.mi?id=1692717909110&key=GRP&app=resvlink>

Last Day to book: April 13, 2024

## E. MCM Elegante Suites

5.8 miles from the Abilene Convention Center

4250 Ridgemont Drive

Abilene, Texas 79606

(325)249-0784

\$114 USD single/double; \$119 USD triple/quad

Last Day to book: March 26, 2024

Please Contact Convention Hotels Chair: Steve Smith, [smith@clearfork1.com](mailto:smith@clearfork1.com) with any questions or concerns.

