



PBS-SEPM NEWSLETTER

August 2020

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KEY DATES For August and September 2020

AUGUST 2020

- **11: WTGS Virtual Luncheon**, 11:30am-1pm, Jasha Cultreri, 3D Seismic Analysis to Evaluate AGI Feasibility of Carbonate Reservoirs
- **24: AAPG/SPE MiT Virtual Luncheon**, 11:30 am-1pm, James A Gibbs, Thinking Like an Independent
- **25: SPWLA Virtual Luncheon**, 11:50 am-1pm, Paul Craddock, Thermal Maturity-Adjusted Log Interpretation (TMALI) in Organic Shales

SEPTEMBER 2020

- **1: WTGS Luncheon**, Midland Country Club, 11:30am-1pm, Kim Gunn Maver, Geological Facies Extracted from Seismic Data Guided by Well Information and the Geologist's Insight
- **23-24: WTGS Virtual Fall Symposium**
- **29: PBS-SEPM Luncheon**, Bush Convention Center & Zoom, 11:30am-1pm, Dr. Mark Engle
- **29: SPWLA Virtual Luncheon**, 11:50am-1pm, Harry Xi, The Role of Organic Matter in Characterizing Unconventional Tight Rocks Using Laboratory NMR

President's Column

Thanks for taking a minute to look through the PBS-SEPM Newsletter! This is my first President's Letter installment in quite a while, and I must say that 2020 looks completely different from anything I have seen before. The changes have impacted a great many facets of life, including how PBS-SEPM operates.

I would like to extend a great big "Thank You!" to the PBS-SEPM leadership. Let's start with last year's Board. Three of the Board members stayed on, while two took committee chair positions. As President, Sandra Elliot led us through the first phase of the CoVid-19 experience, and she pushed us to improve our connection to the members while seeking great content to make our meetings and events worthwhile. She is now chair of the Nominating and Scholarship Committees. Justin Mauck has parlayed his experience as 1st VP, into his new role as One-Day Field Trip Chair. Cindy Bowden did an excellent job as Treasurer last year, getting our digital and physical banking data organized so that I could understand what we had, and where it was. She has taken a grand opportunity to move to the Hill Country. We will miss her here, but wish her the best! Dan Scott has moved to President Elect, and has shown me, already, that he will be an excellent leader next year. Alexis Iwasiw continues in the Secretary position. She has worked hard to organize us, and has led the charge to convert our internal documents to on-line based storage, so that we all see the same things, making transitions and communications much easier! Robert Campbell is continuing as chair of the annual Young Professional / New Hire Field Trip. If you don't know what this event is about, email me for details. He is always happy to help, even with all the demands we put on him for changes, ad nauseum. Thank you, Frank!

I would also like to thank three new volunteers for joining the Board this year. Norman Wells, Jr. rejoins the Board as 2nd VP, bringing with him a wealth of ideas and enthusiasm. Ashton Bruyere has been a general volunteer since grad school, and is now our Treasurer. She has already demonstrated great organization skills, and has some great new ideas! Jessica Pontiff joins our Board, bringing us experience as a volunteer leader in multiple positions with both WTGS and SW Section of AAPG. I am looking forward to a great year with all of the new and returning Board members. I think we have just the right mix for whatever is in front of us for the rest of this "very odd year."

Finally, I need to thank YOU, the PBS-SEPM members. Without your continued support, we would not have the scholarships and continuing education opportunities that we are able to provide now.

So, what are our plans for this year? Well, some things are changing. Norman is looking into the possibilities of having virtual speakers in live meetings, virtual meetings with live speakers, etc. The upside of this possible track is the ability to bring in presenters from distant points, without having the hassle and expense of travel. We may also be able to extend our luncheons to members in remote locations, and bring students from far-flung schools into our luncheon network. With the potential for new meeting formats, we are also adjusting costs... if you don't eat the food at the luncheons, why should you to pay for it? So, watch for new prices for virtual meetings, or for those who bring their own lunch to the meeting. Another new thing is the redesigned website. If you see issues, oddities, or plain old missing data, please let us know. Finally, we are working toward more use of social media, especially the LinkedIn platform, so "connect" with us there to see the latest updates.

We are also keeping some things the same. We are still working on new content each month for our technical luncheons. If you have speaker ideas, or topics you would like to see (or present), please contact Norman or email info@pbs-sepm.org. Field trips are a little odd this year, but we have moved the ROZ Field Trip and Core Workshop to the tentative date of 11/13/2020. If we are able to meet in person, the workshop portion of the event will be in the Bush Convention Center at the same time as the Midland Gem and Mineral Show, and the workshop will end early enough to allow the field trip participants (and everyone else) a little time to peruse the show before the field trip vans head for Carlsbad.

Speaking of your support, we do still need your help. Contact the office and let us know what committee you might be interested in serving on. Be sure to attend luncheons when you can, and when the topic is of interest! Send us ideas for other topics. Bring a friend to the luncheons. Become a corporate or individual sponsor, which can be done for as little as \$50 (see sponsor form in this newsletter). Make sure your membership is up-to-date. Finally, tell your co-workers/partners/contacts about upcoming events they might have an interest in.

We are all in this brand new (weird) world together, so let's help each other out as we learn to adapt to our new environments!

I look forward to seeing you, virtually or in person, on the 3rd Tuesday in September.

Mike Raines
PBS-SEPM President 2020-2021



PBS-SEPM Luncheon Talk – July 21st, 2020

THANK YOU ALL THAT CAME TO THE TALK

Dr. Rebecca Dodge

“Status of Global Ice – the View from Above”

Kimbell School of Geosciences, Midwestern State University

Abstract

The eyes of NASA’s earth resource and environmental satellites observe the entire world with the purpose of identifying or predicting the changes that the earth will face over the next several decades, whether they are natural or human-induced. Identifying changes and monitoring trends in the atmosphere, in the oceans, and on the land involves numerous satellite sensors and platforms. Nowhere is the evidence of global climate change more impressive than at high latitudes and high altitudes; the “ice worlds” are melting. Land ice and sea ice impacts are documented particularly well from airborne and space-based sensors, which can monitor vast remote regions as melting occurs. Ice shelf disintegration and glacial retreat/advance globally will be highlighted in this presentation, using imagery from a variety of Earth Observation satellites, including those specifically designed to monitor the cryosphere.



We are grateful Dr. Dodge was able to present. For those that missed the presentation or want more information about her discussion, please check out these links:

<http://earthobservatory.nasa.gov/Study/Greenland/greenland3.html>

<https://www.facebook.com/NASAEplorersSeries/videos/2081065585538869/>

<https://www.nps.gov/subjects/geology/glacial-landforms.htm>

<https://blogs.ei.columbia.edu/2015/11/13/unlocking-the-secrets-of-the-ross-ice-shelf/>

https://www.usgs.gov/centers/norock/science/grinnell-glacier-1911-2016?qt-science_center_objects=0#qt-science_center_objects

<https://nsidc.org/cryosphere/glaciers/questions/climate.html>

GRACE Observations

<https://earthobservatory.nasa.gov/world-of-change/LarsenB>

“Where the glacier meets the sky, the land ceases to be earthly, and the earth becomes one with the heavens; no sorrows live there anymore, and therefore joy is not necessary; beauty alone reigns there, beyond all demands.”

-Halldor Laxness
(1902-1998)
Nobel Prize in Literature 1955



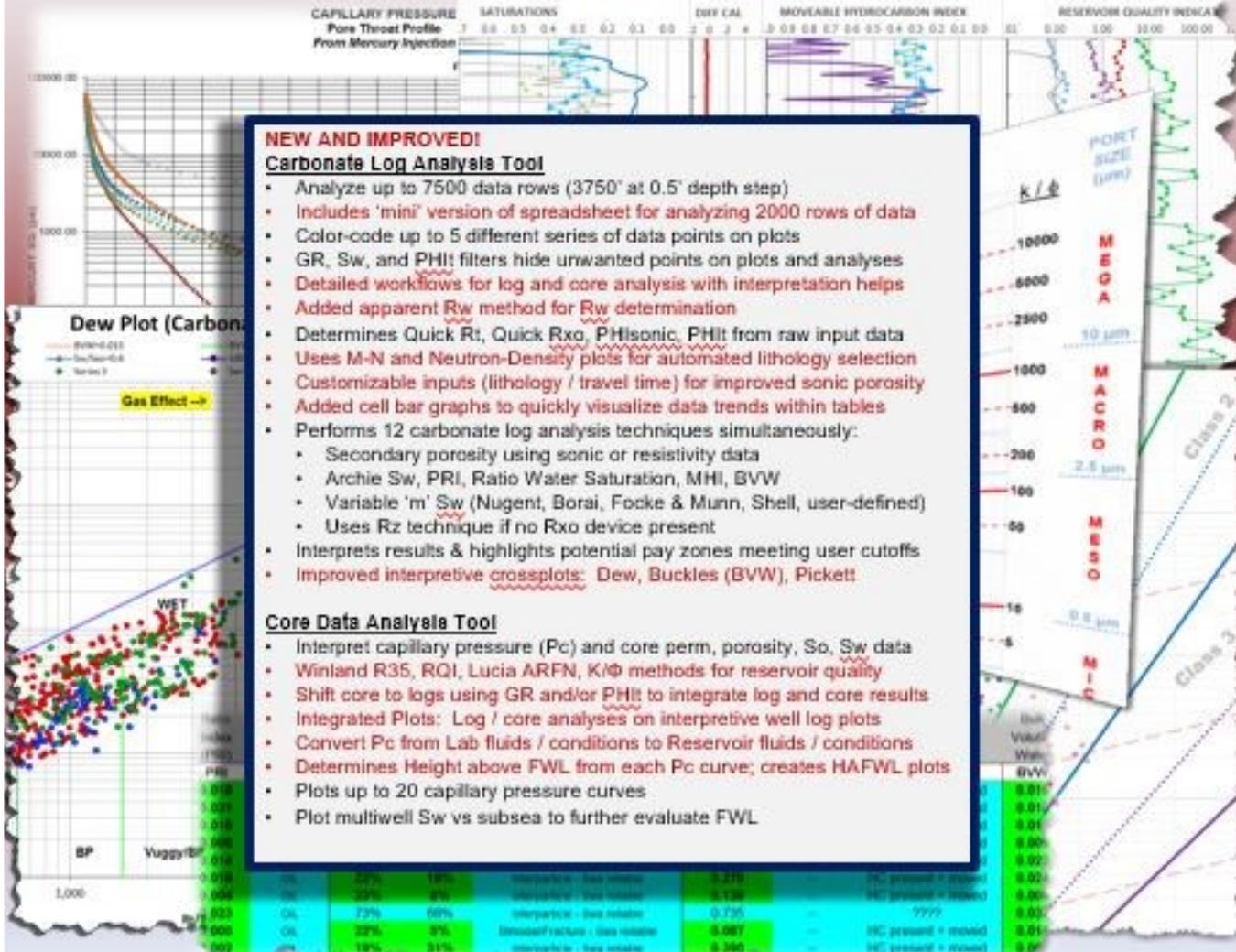
Carbonate Log & Core Analysis Spreadsheet v. 5.0

By Cory L. Hoffman, Ph.D.



Major Upgrade (January 2020)! [Designed for Microsoft Excel 2013]

Carbonate Log analysis draws heavily upon teachings of George Asquith
 Core Data analysis draws heavily upon teachings of Dan Hartmann



**Carbonate Log and Core Analysis Tool (\$50) – includes free 'mini' version and any in-version upgrades (5.x)
 \$25 for Students with proof of Student ID**

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and pay with credit card

SPE/AAPG: Permian Basin Members in Training Webinar – August 24, 2020

James A. Gibbs

“Thinking Like an Independent”

Chairman, Five States Energy Company, LLC

Monday, August 24th, 2020 - [GoToWebinar](#), 11:30 a.m.

[RSVP](#) HERE or Scan QR Code



Abstract

Suppose you suddenly parachuted into an unfamiliar town, with very little cash in your pocket, few if any friends or acquaintances, but realizing you'd have to get by on what you already knew or could do.

How would you begin?

That is the plight of an increasing number of geoscientists, engineers, geotechs, landmen, and others who are either just coming out of colleges with degrees, but no job offers, or those who have been working in a company for years and suddenly find themselves unemployed, adrift and concerned. They must soon learn the practice and skills of thinking like an independent, following the thousands of men and women who have faced similar situations in the past, but who became successful oilmen and women, and respected members of their communities. “Thinking Like an Independent” cites lessons gleaned from knowing and listening to successful independents throughout the years and offers some suggestions that may be helpful in resetting an individual's goals and strategies for the future.

Biography

After several years as a geologist with The California Company (Chevron) in Louisiana, Jim came to Dallas in 1964 to open an office as a consultant and an independent (interpret as unemployed). In 1985, he founded Five States Energy Company, LLC, to acquire and develop producing oil and natural gas properties for the principals of the company and its clients. He continues his duties as Five States' chairman today.

Jim is a past president of the Dallas Geological Society and the American Association of Petroleum Geologists and is an Honorary Member of both. Mr. Gibbs currently serves as chairman of the AAPG Foundation's Board of Trustees. He has written numerous articles for AAPG publications, including the booklet *Becoming an Independent Geologist; Thriving in Good Times and Bad.* (1999) Among Jim's professional activities is helping new graduates and mid-career geoscientists identify and develop suitable career opportunities as independents.



“The longer you hang in there, the greater the chance that something will happen in your favor. No matter how hard it seems, the longer you persist, the more likely your success.”

-Jack Canfield
(1944-)

Motivational Speaker, Author

WTGS

Fall Symposium

Bush Convention Center

105 N. Main Street, Midland, Texas

September 23 & 24, 2020



BETTING ON THE PERMIAN BASIN

THE UNCONVENTIONAL "ACE" UP YOUR SLEEVE

WTGS 2020 Fall Symposium

Online Registration is now available at www.wtgs.org

September 23-24, 2020

PBS-SEPM Luncheon Talk – September 29, 2020

Dr. Mark Engle

“Sourcing and characterizing geochemical changes from unpermitted produced water dumping, Permian Basin, USA”

Geological Sciences Department, UTEP

Tuesday, September 29th, 2020 - [Bush Convention Center](#), 11:30 a.m.

Will be available virtually through Zoom

NOTE: Last Tuesday due to WTGS Virtual Fall Symposium

Abstract

Produced waters are the most voluminous waste stream of hydrocarbon production, with the Permian Basin of New Mexico and Texas producing more than 107 barrels/day (1.7x10⁹ L/day). Despite calls for better produced water management in this semi-arid region, unpermitted produced waters dumping remains a serious problem. This study focuses on the chemical and isotopic composition of 41 surface (0-5 cm) and core (0-30 cm) soil samples from 5 dump sites in the Mescalero sand dunes, southeast New Mexico. Surface samples identified as those impacted by produced water dumps (n=18) exhibit higher water content (p<0.01) and saturated electrical conductivity (up to 5.8% and 23.2 mS/cm) than control samples (n=15). Nearly all water extractable ions were enriched in dump surface samples relative to control samples, with major ions enriched by factors of 13 to 4,500 (averages).

Isometric logratios of Br, Cl, and Na in water leachates from the dump samples overlap those of nearby produced waters from tight oil (e.g., Bone Spring) and conventional gas wells, which are of paleoseawater origin. ⁸⁷Sr/⁸⁶Sr composition of water leachates of surface control samples (0.70850–0.70894) correspond to that of local caliche, indicating Sr originated from local dust and precipitation. ⁸⁷Sr/⁸⁶Sr of surface dump samples are universally higher (0.70919–0.70942) than the control samples, and can be modeled by addition of ~1-200 ml of produced water from the Bone Spring, Strawn, or Morrow reservoirs to a kg of average control sample soil. Local production data from within the study area show that roughly 80% of produced water generated during the period of dumping came from horizontal Bone Spring wells. Data from core samples show that native Sr was completely flushed out to depths >30 cm at one site but not the other, suggesting site-specific controls on sub-surface flow of waste fluids. Surface dump samples also show a ~2-fold enrichment in ²²⁶Ra and ²²⁸Ra relative to control samples, but are well below activities from mass balance mixing calculations with produced waters suggesting Ra loss prior to or after dumping occurred. Results from this initial investigation demonstrate that unpermitted dumping of produced water degrades environmental quality and can be traced using isotopic tools.



Biography

Mark Engle is a Professor in the Dept. of Geological Sciences at the University of Texas at El Paso, where he focuses on the geochemistry and movement of fluids in sedimentary basins and at the air-surface interface. He has published nearly 100 papers, reports, and book chapters on a number of topics including the origin of produced waters from major oil gas and tight oil plays. He previously served as the chief of the U.S. Geological Survey Energy Resources Program's produced waters project, for more than a decade. He holds a Ph.D. in Hydrogeology from the University of Nevada, Reno and a B.S. with an emphasis in chemistry and earth sciences from the Evergreen State College.

“I only feel angry when I see waste. When I see people throwing away things we could use.”

-Mother Teresa
(1910-1997)
Consecrated Religious Nun



Permian Basin Section-SEPM ROZ Core Workshop & Field Trip

Friday Nov. 13 (8 AM-2 PM), Bush Convention Center, Midland, Texas
Saturday-Sunday November 14th-15th, 2020 – Field Trip, New Mexico

Registration Form

PBS-SEPM is Hosting a Two-Part Residual Oil Zone (ROZ) Core Workshop and Field Trip

The ROZ Core Workshop will begin at 8 AM in the Ballroom at the Bush Convention Center. Light pastry options will be available for breakfast. We will have a total of 5 cores available:

- Goldsmith San Andres Unit #1-335A (Main Pay), XTO, Ector - Goldsmith San Andres Unit # 1-9-WC (ROZ), XTO, Ector
- Goldsmith-Landreth San Andres Unit 190, Kinder Morgan, Ector - Hanford San Andres Unit #501, Faskin, Gaines
- Shafter Silver District, Ross Mine Formation, Marfa Basin (*Faults, Hydrothermal Silver, and Oil*), Pecos (2 Cores)
- Cleveland #A-601, Riley Permian, Yoakum - Miss Kitty # 669-704, Riley Permian, Yoakum

Lunch at the Bush Convention Center will be included. The workshop will end at 2 PM. Field trip attendees will board SUVs to head to the Stevens Hotel in Carlsbad, New Mexico. Friday evening will include a group dinner along with an overview of the outcrop stops. Saturday begins at 6 AM (MT) with breakfast at the hotel and a 7 AM departure to Laurel Canyon west of Carlsbad. Box Lunch is provided (both days). Saturday stops end at Stone Canyon. Everyone is free to decide their individual plans for dinner. Sunday morning's schedule is identical to Saturday, with stops starting at Cloudcroft, then moving to Northern Ruidoso before heading east. Sunday's stops will include the present day lower San Andres recharge area west of Roswell, which has well developed karst. The trip will end with a return to Midland, arriving around 6 PM at the Bush Center.

If you are interested in sponsoring this event, either for the food, supplies, transportation, or student sponsorship, please send an email to info@pbs-sepm.org with your name, company, contact information, and amount you would like to contribute.

If you are interested in driving one of the 5 SUVs on this trip, please send an email to info@pbs-sepm.org with a copy of your Driver's License, Insurance Information, and a few notes of previous experience driving off road in SUVs.

Field trip attendance is limited to 35 registrants, on a first-come, first-served basis.

The Core Workshop and Field Trip give you a chance to see:

- The ROZ interval (and its oil saturation variations with depth)
- Lower San Andres Limestones below the ROZ
- Pay Zones in the Horizontal San Andres Play*
- San Andres meteoric water recharge area
- Impact of Meteoric water-sweep (on fluids and rock)
- Maturity enhancements in clastics exposed to volcanics
- Diagenesis related to volcanic hydrothermal waters
- Stratigraphic and depositional styles of the San Andres
- Karst / collapse breccia in San Andres in outcrops
- Two newly slabbed silver mine cores, never before described

* Yoakum is the most active area, with 250 wells since 2014, producing 300,000 BOPD. Riley's cores are in the heart of the play.

Registration Fees

Core and Field Trip: PBS-SEPM Members \$425 () Non-Members \$460 () ** Students \$325 ()
 Workshop Only: PBS-SEPM Members \$250 () Non-Members \$285 () ** Students \$125 ()

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** - Student rate is limited to full time students who are not employed full time

PBS-SEPM Publications



PBS-SEPM Symposia And Core Workshops on 3 DVDs



This is your opportunity to have the entire PBS-SEPM publication library (1955 – 2007) at your finger tips. There is a fully searchable Table of Contents—find a topic or author just by typing in the word(s). All publications are in Adobe PDF with all major articles being bookmarked, and all the figures are linked in the text for quick reference. Those areas that are off limits to geologists like the Glass Mountains or Sierra Diablos have been written up in these publications. Numerous out-of-print publications and figures and/or plates not published in the original guidebooks are now available in this library.

This includes all publications, even the special publications and coveted core workshops. Can you imagine the hidden treasures you might find? Here is your chance to uncover them in this special three (3) DVD set. *Buy one or all.*

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PBS-SEPM Executive Board (2020-2021)

| | | |
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| Previous President: | Sandra Elliott | sdelliott1234@gmail.com |
| YPFT Chairman | Robert Campbell | nebularc@yahoo.com |
| Luncheon Chairman | OPEN POSITION | |
| Webmaster | Frank Fullbright | fafullbright@paalp.com |

Do you have an idea for an interesting luncheon talk? Have a core workshop you'd like to present? Have some suggestions on how PBS-SEPM can better serve the geologic community? Send us an e-mail to share your idea, your PBS-SEPM Executive Board wants to hear from you!

PBS-SEPM Exiting Executive Board (2019-2020) - Thank you for your hard work to keep our organization moving forward.

| | | |
|-------------------------------|------------------|----------------------------|
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| YPFT Chairman | Robert Campbell | nebularc@yahoo.com |
| Webmaster | Frank Fullbright | fafullbright@paalp.com |



San Andres, Lawyer Canyon, Bob Lindsay

“Service to others is the rent you pay for your room here on Earth.”

**-Muhammad Ali
(1942-2016)
Professional
boxer, activist, and
philanthropist**

Corporate Sponsorships (2020-2021) - PBS-SEPM is grateful for the generosity of these fine corporate sponsors !

Platinum Sponsor



Sponsorship Information (2020-2021)

Our non-profit society relies entirely upon the efforts of dedicated volunteers to serve the geological community—primarily through educational events. The PBS-SEPM hosts luncheon lectures, core workshops and field trips that are led by experts in their chosen areas of the geosciences. If you would like to sponsor the PBS-SEPM in anyway, we have various levels of commitment you can choose from.

Platinum: \$1500+: Company Logo for 2 years on YPFT field trip, core workshops, luncheon slides, newsletters, website, or new publications (from date of donation)

Gold: \$1000: Company logo for 1 year on the YPFT field trip (which includes guidebooks and other paraphernalia-stickers, pens/pencils, rite in the rain books), luncheon slides, newsletter, and website

Silver: \$700: Logo on the core workshop / one day field trip (which includes guidebooks), luncheon slides, newsletter, and website

Bronze: \$400: Will get their logo on all PBS-SEPM luncheons, newsletters, and the website.

Aluminum: \$250: Will get logo on all luncheons slides, and table tent for one luncheon date.

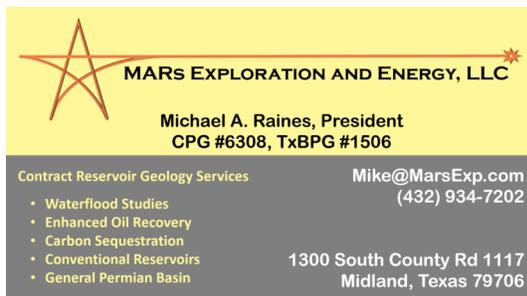
If you are interested in a sponsorship opportunity, please call PBS-SEPM for more details at (432) 279-1360 or e-mail info@pbs-sepm.org.

Individual Sponsors of PBS-SEPM (2020-2021)

Your Business Card Could be here!

Individual sponsors are advertised on the PBS-SEPM website and each newsletter. Cost is \$50/year. If you are interested in a sponsorship opportunity, please call PBS-SEPM for more details at (432) 279-1360 or email info@pbs-sepm.org.

Your card will be in every newsletter and on the PBS-SEPM Website for one year from August to May.



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If you are interested in a sponsorship opportunity, please call PBS-SEPM for more details at (432) 279-1360 or e-mail info@pbs-sepm.org.

“We make a living by what we get, but we make a life by what we give.”

**-Winston Churchill
(1874-1965)
Prime Minister of the
United Kingdom**

PBS-SEPM is the Permian Basin Section of SEPM—the Society for Sedimentary Geology. However, you do not need to be a SEPM member or a geologist to join PBS-SEPM.

PBS-SEPM prides itself on its success in providing high caliber speakers as well as exceptional core workshops and field trips. PBS-SEPM also provides scholarships to graduating high school students in western Texas and New Mexico. These scholarships are on occasion, offered to college students that have declared their desire to pursue a degree in the geosciences. Through continued support from the industry, PBS-SEPM can continue to provide excellent educational opportunities for the oil and gas industry.

If you would like to join PBS-SEPM, you may visit our website to learn more about us, download a membership form, and learn how to get involved.

Scholarship and Distinguished Speaker Events (2020-2021)

Wendell J. Stewart Fund: so named for the famous sequence stratigrapher, was initially funded by the family, and then later through PBS-SEPM members who have contributed over the years. In the past, the scholarship was established to award high school students intending to pursue a college education in the geoscience field (declared major), and had evolved to include college students actively pursuing a geology degree when there were no other qualified candidates. Funding for this scholarship has waxed and waned over the years with the changes of the petroleum industry and because this scholarship is set up in such a manner that only the interest can be used to distribute funds, most scholarships in the last 30 years have been awarded through the PBS-SEPM main budget and not the scholarship fund.

We are proud to announce that we had two receivers for the Wendell J. Stewart Scholarship Fund in May 2020: Vanessa Armendariz, an undergraduate petroleum geologist at UTPB, and Heather Dudley, a paleontology graduate student at Sul Ross.

Robert Read Distinguished Lecturer Fund: was founded to honor a bright, young geologist who had been an active member of both PBS-SEPM and WTGS and was tragically killed by a drunk driver. Donations from various members of both societies contributed to a membership donation fund that both encourages our continuing education efforts by helping offset the cost of bringing in a distinguished lecturer, usually in geosciences, but not required.