

Big Bend National Park — Aaron Bates Photography

PBS-SEPM NEWSLETTER December 2021

President’s Letter— 2
Continuing Transitions

Call for Volunteers 3
Board updates

PBS-SEPM Luncheon location change** 4
Parking update**

PBS-SEPM January Luncheon, 5
Speaker: Dr. Guy Plint Title: “Themes in Western Canada Foreland Basin Stratigraphy”

Membership 6
Consider joining if your not already a member

PBS-SEPM Merchandise 7

Digital & Hard Copy Library 8
~Publication Highlight~

PBS-SEPM Publication: V.5 9
Carbonate Well Log & Core Data Analysis Spreadsheet

Corporate & Individual Sponsors 10
We appreciate your generosity

PBS-SEPM Sponsorship Tiers & PBS-SEPM Executive Board 11
2021-2022

About PBS-SEPM 12
Wendell J. Stewart Scholarship Fund & Robert Read Fund



KEY DATES For December 2021 and January 2022

- DECEMBER 2021**
- **SPE PB** -No Luncheon
 - **SPWLA-PB**- No Luncheon
 - **14th: WTGS** Luncheon, Bush Convention Center/Virtual, 11:30
 - **PBS-SEPM**- No Luncheon

- JANUARY 2022**
- **11th : SPE PB** Luncheon, Petroleum Club of Midland
 - **18th: PBS-SEPM Luncheon, Planetarium at the Museum of the Southwest & Virtual,** \ 11:30am-1pm

Young Professional and Intern Field trip
June 9-12 2022
More information coming soon

December President's Letter

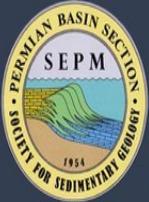
This holiday season I would like to give a special shoutout to all the members that continue to support and contribute to the success of the PBS-SEPM. To all of the speakers and presenters this year and years past, you continue to amaze me with all of the intellectually stimulating topics in multiple disciplines of the field of Geoscience. I hope everyone has a safe holiday season with all your loved ones.

We will see you in 2022!

PBS-SEPM President

Dan Scott





Volunteer with PBS-SEPM!



If you are interested in volunteering with PBS-SEPM,
below are the Board Positions and Committees

Board Positions

President-Elect
1st Vice President
2nd Vice President
Treasurer
Secretary

Committees

Nominating
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Stratigraphic
Scholarship
Core Location
Dedicated Service Award
Distinguished Lecturer Series

Webmaster
Publicity
One Day Field Trip Young
Professionals Field Trip
Lunch Arrangements
Luncheon Program
Speaker Award
Publications

Please email us at info@pbs-sepm.org to get more details about the position
or committee.

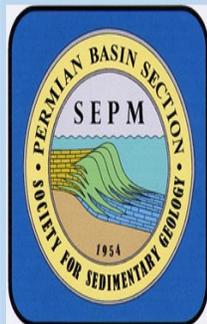
PBS-SEPM Luncheon ** LOCATION CHANGE and PARKING UPDATE**

Planetarium at the Museum of the Southwest
1705 W. Missouri Ave., Midland, TX 79701

Due to construction, please use the alternative parking on W. Missouri Avenue, K Street and Holloway Avenue



PBS-SEPM Luncheon Talk – January 18, 2022



PBS-SEPM Technical Luncheon

1/18/2022, 11:30, Museum of the Southwest
Blackmore Planetarium

\$25 Early Bird Rate, \$30 at the door, or \$5 BYOL/Virtual

RSVP by 1/14/2022 to info@pbs-sepm.org or online at <https://www.pbs-sepm.org>



“Themes in Western Canada Foreland Basin Stratigraphy” by Dr. Guy Plint,

Department of Earth Sciences, the University of Western Ontario, London, Ontario, Canada, N6A 5B7

Thirty-five years of subsurface and field investigation of mid-Cretaceous strata in the Western Canada Foreland Basin have revealed a number of recurring stratigraphic and sedimentological features that reflect large-scale, allogenic controls on basin subsidence and filling. Before the late 1980's, coarse-grained tongues extending into the foredeep were interpreted to correspond to phases of active uplift in the adjacent fold and thrust belt, whereas mudrocks represented tectonic quiescence and lower relief. Numerical models, such as Flemings and Jordan (1989) inverted this thinking, showing that active tectonic loading resulted in rapid flexural subsidence, when coarse sediment was trapped at the proximal basin margin, and a thick wedge of mud accumulated across the basin centre. Only when the rate of loading, and subsidence, diminished, were sandy deltaic systems able to prograde far into the foredeep. The observed facies and stratal geometry in Western Canada strongly support this model prediction. Thick *wedges* of mudrock record rapid subsidence whereas thin *sheets* of sandstone and conglomerate record a low accommodation rate that allowed extensive coastal progradation. A still-popular model of Western Interior bathymetry (e.g. Kauffman, 1984) includes an 'axial basin' up to 500 m deep. Western Canada stratigraphy shows no evidence of an 'axial basin': The sea floor formed an extremely low-gradient, storm-influenced ramp no more than a few tens of meters deep. Flexural models of foredeep subsidence typically show a linear foredeep parallel to the orogenic belt. This picture may be true when viewed on a timescale of tens of myr. However, when stratigraphy is resolved on timescales of 1 myr or less, it is clear that subsidence occurs in arcuate 'moats' that reflect temporally and spatially localized loading along c. 200-300 km sectors of the orogen. Within each 'moat' stratal geometry shows an upward change from short blunt wedges to thin sheets. This pattern is interpreted to reflect an initially rapid, then diminishing subsidence rate linked to initially rapid thickening of the adjacent fold and thrust belt, followed by slow erosional degradation. Orogen-proximal areas of the foredeep are typified by aggradational muddy floodplain and fine-sand dominated anastomosed river systems, punctuated, on a 10^5 yr timescale, by paleovalleys filled with medium sand to conglomerate. The recurrence interval, length, and coarser-grained fill of valleys cannot be explained solely by sea-level changes. Changes in rainfall over the Cordillera, paced by Milankovitch-scale climate cycles, offer a more reasonable explanation for valley incision and filling, and advance and retreat of the gravel front in rivers.



Biography

Guy Plint received a BSc from the University of Reading in 1977 and a DPhil from the University of Oxford in 1981. Postdoctoral fellowships at the University of New Brunswick (1981-84) and McMaster University (1984-86) were followed by appointment to the faculty of the University of Western Ontario (1986-present). He has conducted 37 field seasons in Western Canada, supervised 33 graduate theses, and published over 90 papers on the Cretaceous rocks of the Western Canada Foreland Basin.



Why Join or Sponsor PBS-SEPM?

- Help provide Geoscience scholarships
- YP/I Field Trip led by disciplined professionals
- Professional field trips led by topical experts
- Annual Core Workshops
- Monthly technical luncheon series
- Networking opportunities
- Special member pricing on publications

Only \$25 to join!



If you are not already a member, consider joining today!

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.

**Visit our website today to join, or sign up at one of our luncheons.
www.pbs.-sepm.org**

PBS-SEPM Merchandise



Great Christmas Gift Ideas



PBS-SEPM Merchandise

MARBLE NOTEBOOK

\$10.83



LEATHER PADFOLIO

\$27.06



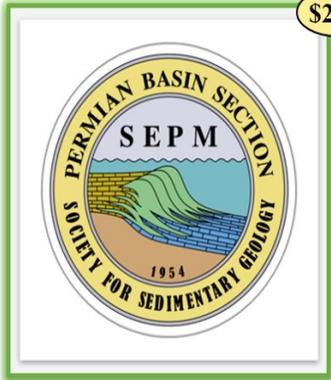
TUMBLER

\$16.24



VINYL STICKER

\$2.00



TO PURCHASE ANY OF THESE ITEMS CONTACT:

PBS-SEPM office (432) 279-1360 or info@pbs-sepm.org and available at all Luncheons

Payment: check, cash or online with credit card

Make checks payable to PBS-SEPM & send order form to: PBS-SEPM, 2900 Front St, Midland, TX, 79701

To purchase online, click [HERE](#) and pay with credit card

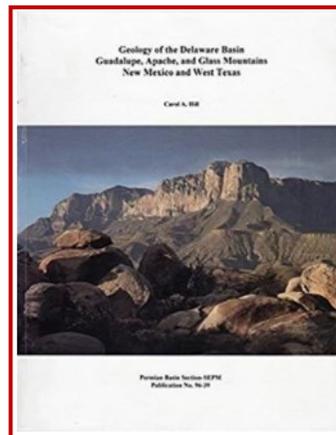
PBS-SEPM Publications

PBS-SEPM PUBLICATION HIGHLIGHT

**“Geology of the Delaware Basin, Guadalupe,
Apache & Glass
Mountains NM & West TX**

96-39

[\\$35.00 Members \\$40.00 Non-Members](#)

**Entire PBS-SEPM publication library (1955 – 2007)**

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.

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Member- \$125.00 plus 8.25% tax and \$5.00 shipping and handling
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For additional information contact: **PBS-SEPM office** (432) 279-1360 or info@pbs-sepm.org

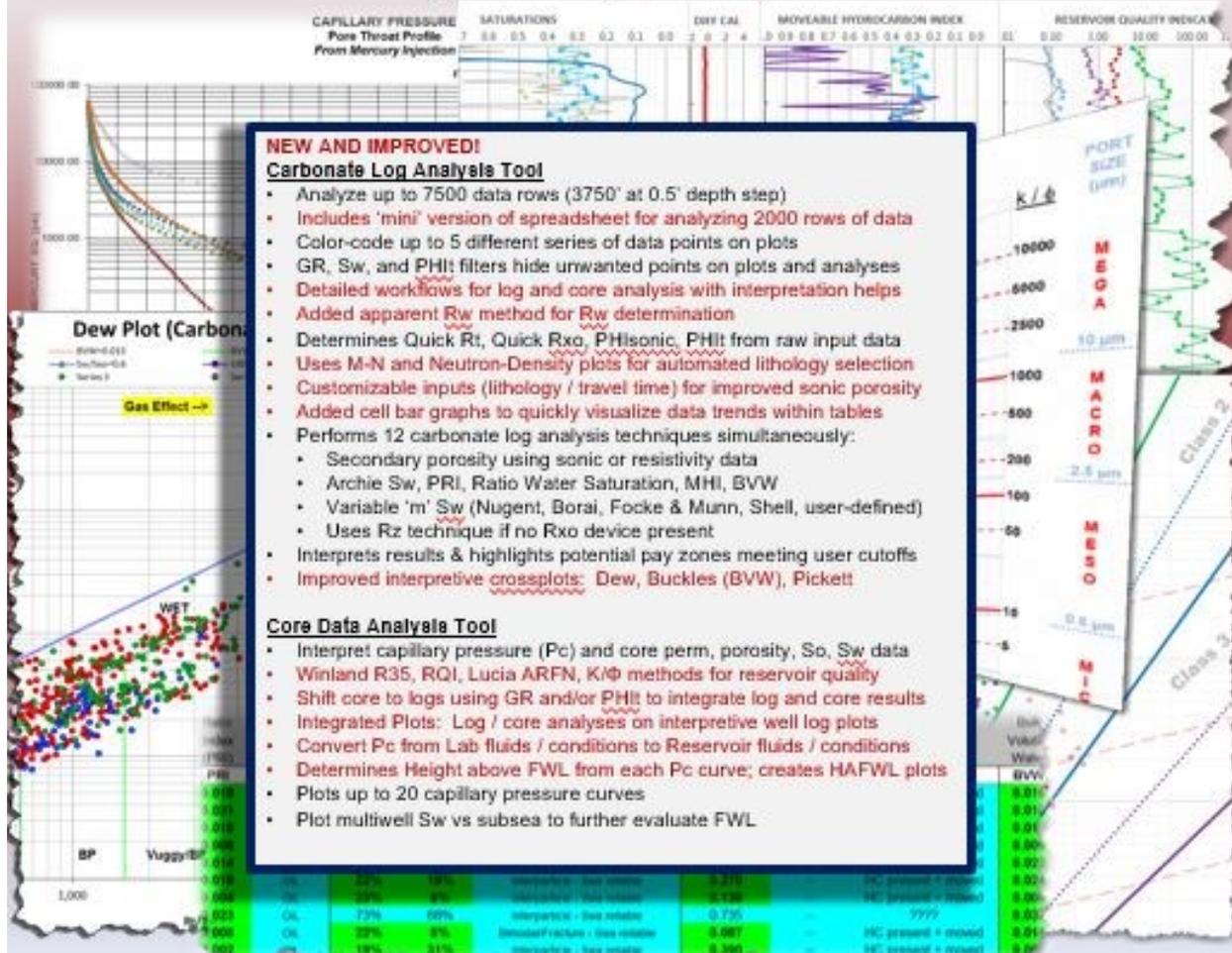


Carbonate Log & Core Analysis Spreadsheet v. 5.0

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



We would like to thank, **Fox Pest Control**, a local Midland-Odessa Company, who have decided to sponsor with PBS-SEPM. They like to sponsor local organizations that are making a difference in their service area.



Corporate Sponsorships (2021-2022)

PBS-SEPM is grateful for the generosity of these fine corporate sponsors !

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Your support lifts your corporate name within the Permian Basin.

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*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



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Sponsorship Information (2021-2022)



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!

Become a PBS-SEPM Sponsor and help support your local chapter

The PBS-SEPM hosts luncheon lectures, core workshops and field trips. We bring in guest speakers from all over the country to discuss current geological topics. Our lecture series, along with core workshops class, and field trips are led by experts in their chosen areas of geosciences.

PLATINUM – Your generous support of **\$1500 or more** will provide your company with recognition for two years on the Young Professional Field Trip (YPFT) (including guidebooks and other paraphernalia), core workshops, PBS-SEPM monthly luncheon slides, newsletters, website, and new publications.

GOLD – Your generous support of **\$1000** will provide your company with the same level of recognition as above for one year, excluding new publications.

SILVER – Your generous support of **\$700** will provide your company with recognition for one year on the core workshop/one day field trip (including guidebooks), PBS-SEPM monthly luncheon slides, newsletters, and website.

BRONZE – Your generous support of **\$400** will provide your company with recognition for one year on all PBS-SEPM monthly luncheon slides, newsletters, and website.

ALUMINUM – Your generous support of **\$250** will provide your company with recognition for one year on all PBS-SEPM luncheon slides and table tent for one luncheon date.

INDIVIDUAL – Your generous support of **\$50** will provide your business card advertised for one year on the PBS-SEPM website and each newsletter.

PBS- SEPM Sponsorships year: June 2021 to May 2022

If you or your organization would like to support the PBS-SEPM's efforts., then please contact us at

info@pbs-sepm.org or go to our website and click on the sponsorship <https://www.pbs-sepm.org/sponsorship>

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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.

Scholarships & Distinguished Lecturer Fund

Robert Read Distinguished Lecturer Fund

- The 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. With these funds, we will bring our members and community a distinguished lecturer to present at a dinner event.

Wendell J. Stewart Scholarship Fund

- The Wendell J Stewart fund is 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 was 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. As of 2021, a resolution was passed by the executive board that allows funds to be distributed from the scholarship fund.

Sue Tomlinson Reid Scholarship Fund

- The Sue T. Reid Scholarship was ratified June 1, 2021. This scholarship is named in honor of an excellent paleontologist who was a pioneer of women in geosciences. This scholarship will be focused on helping honor Sue's memory by supporting women at the university level who are aiming for careers in Earth Science. Funding for this scholarship will be through contributions from members and sponsors of PBS-SEPM.