



# PBS-SEPM NEWSLETTER



September, 2010

2010-11 - PBS-SEPM 2

**Sept 8-9: SPE-Permian Basin: Optimizing Mature Basins Workshop, Hilton Hotel, Midland, TX.** Featuring the Latest Advancements in Mature Basin Reservoir, Production, Operations and Facility Engineering.

**Sept 15-17: WTGS Fall Symposium, at Midland Center.** Theme: Leveraging Conventional and Unconventional Play Concepts in the Permian Basin—The Value of Stratigraphy and Technology. See [www.wtgs.org](http://www.wtgs.org)

**Sept 21: PBS-SEPM Luncheon Meeting, 11:30 am at Midland Center.** Speaker: Don Purvis, BJ Services, Topic: "Boom to Bust to Boom: How Current Completion Practices and Stimulation Practices Have Brought Previously Bypassed Shales to Life."

**Oct. 12: WTGS Luncheon Meeting, at 11:30, Midland Center.** Speaker: Kevin Stafford. Topic: Recent Advances in Karst Science: Implications for the Permian Basin. See [www.wtgs.org](http://www.wtgs.org) for more details.

**Oct. 19: PBS-SEPM Luncheon Meeting, 11:30 am at Midland Center.** Speaker: TBA. See [www.pbs-sepm.org](http://www.pbs-sepm.org)

## President's Column:

It is time to kick off the 2010-2011 term for the Permian Basin Section SEPM. This term will not be uncommon from those in the past as no matter how good or how bad our economy, it is the continued interest of PBS-SEPM to serve the geologic community by providing powerful continuing education. In spite of the issues with the world economy, west Texas seems to be blessed. All of us seem to be a bit busier than we wish and oil is at \$75/ bbl for October delivery.

I am very excited about my upcoming year as your President. Your PBS-SEPM Executive Board is conscientiously working on making its 2010-2011 educational programs complement your needs.

There are presently several ideas being considered for the 2011 PBS-SEPM Spring Field Trip. I have received excellent ideas from several of you. Several of the trips could take us to places we have not been in quite some time. But it seems the trips we are all so passionate about can sometimes be difficult to schedule. It takes time for data gathered by a consortium to be released to the general geologic community. In our attempt to travel to places we have not been in some time, it is difficult to find someone capable or willing to lead the trip. Last but not least we have run across the issue of the prickly land owners, which is becoming more common with time. Maybe we need an accomplished landman to deal with the land owner issues we encounter. This board will continue to capture information related to desired trips which will allow us to preserve these ideas and track their progress for future executive boards to tap. In any event, the PBS-SEPM Annual Spring Field Trip is sure to be a thought-provoking trip.

The Young Professional Field Trip will be held mid-June, 2011. The trip was a great success in

2010 with over 30 young professionals from the land, engineering and geology disciplines attending. If you know of any young professionals that have not yet attended this extraordinary field trip, I would highly recommend you encourage their attendance.

Last year the PBS-SEPM resurrected the one-day development workshop with an introductory seismic class instructed by Jay May. The success of the workshop suggests this type workshop is of interest to the geologic community and so there are plans for another development workshop to be held later on this fall.

This year the society will honor Robert L. Read, Jr. by hosting its first annual event for the Robert L. Read, Jr. Distinguished Lecture Series. This will be an evening event planned by the robust lecture committee which includes Bob Trentham, Mike Party and Steve Shaw.

We plan to offer a core workshop. With so many edifying opportunities, there should be plenty of programs to choose from to whet your skills. Keep an eye on the PBS-SEPM newsletter and website for new postings, dates and times.

It is one of the goals of PBS-SEPM to have its calendar printed and ready for sale by the annual WTGS Fall Symposium. With the early scheduling of the symposium, it has been a mad race with time, but we made it and with several days to spare. Unfortunately there was not sufficient time to effectively conduct the popular calendar photo contest that the society initiated last year. However, we had an excellent collection of photographs to choose from for the 2011 calendar due to the high caliber of photography in over 100 photographs submitted in the contest for the 2010 calendar. You now have plenty of time to sort through your favorite photos as we

## Teri McGuigan

will establish ample time to run a calendar contest for the 2012 calendar.

If you have not been on the website in a while, you need to check it out. Wendy Savage, our webmaster, has given our website a bit of a face lift. An interest was expressed for a blog, which could possibly be a symbol of our "round table" for stratigraphic conversation as we continue to evolve with the computer era. I hope this will be a useful tool and that you will visit the blog soon. Your thoughts and ideas will be valuable in making this idea work.

In 2008, PBS-SEPM initiated the Core Location Committee. This committee was formed to locate long lost cores that have not been destroyed but misplaced or tucked away in a secure place. The committee has a series of goals that when accomplished will give all of us a comprehensive library of core data. This critical tool is needed by all of us to better understand enhanced reservoir characterization and hydrocarbon recovery in a basin as mature as the Permian Basin. Thanks to David Orchard and ConocoPhillips Company, the committee will have a booth at the WTGS Fall Symposium. Please take time to visit this booth. Your support for this committee will be a tremendous asset to us all.

As I close, there is another important thing you can do for PBS-SEPM and that is to support the society by growing our membership. Take the time to reach out to a non-member and invite them to join this valuable society. Membership is at the bargain basement price of \$20.00 annually and provides an abundance of worthwhile information.

*Teri McGuigan*

President, PBS-SEPM 2010-2011  
<http://www.pbs-sepm.org>

## New PBS-SEPM Executive Board (June, 2010—May, 2011)

<b>President:</b>	Teri McGuigan	<a href="mailto:tmcguigan1@suddenlink.net">tmcguigan1@suddenlink.net</a>	770-7099
<b>President Elect:</b>	David M. Thomas	<a href="mailto:dthomas@treyresources.net">dthomas@treyresources.net</a>	570-6898
<b>First Vice President</b>	Robert Nail	<a href="mailto:rnail@smenergy.com">rnail@smenergy.com</a>	688-1708
<b>Second Vice President:</b>	Wayne Helms	<a href="mailto:Wayne.helms@weatherfordlabs.com">Wayne.helms@weatherfordlabs.com</a>	684-8800
<b>Treasurer:</b>	Cindy E. Bowden	<a href="mailto:cindy_bowden@kindermorgan.com">cindy_bowden@kindermorgan.com</a>	688-3785
<b>Secretary:</b>	James Hawkins	<a href="mailto:jhawkins@mnlidland.oilfield.slb.com">jhawkins@mnlidland.oilfield.slb.com</a>	571-4626
<b>Executive Director:</b>	Paula Mitchell	<a href="mailto:wtgs@wtgs.org">wtgs@wtgs.org</a>	683-1573
<b>Past—President</b>	Fred H. Behnken	<a href="mailto:fred_behnken@kindermorgan.com">fred_behnken@kindermorgan.com</a>	688-2344

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? Just click on the e-mail above and drop us a note—your PBS-SEPM Executive Board would love to hear from you!



*"You geologists never get oil anywhere but in the most godforsaken spots, so this one out to be a strike for sure"*

*A.J. (Jake) Henderson, Drilling Foreman spoken to geologist Frank R. Clark, both with Ohio Oil Co., after seeing the location Clark had selected for the first well in the soon to be discovered Yates Field. September, 1926*

## Corporate Sponsors (2010-2011) see others on p. 3

If you are interested in a sponsorship opportunity, please call Paula Mitchell for more details at (432) 683-1573



**PBS-SEPM is grateful for the generosity of these corporate sponsors .**

**See page 3 for additional sponsors**

**Please remember to thank them for their support!**

Your Corporate Logo could be here.

Your logo will be on the website, in every newsletter, on the Power Point shown prior to every luncheon and in the calendar credits for one year June to May.

## PBS-SEPM Luncheon Talk: Tuesday, September 21, 2010

### TITLE:

### Boom to Bust to Boom: How Current Completion and Stimulation Practices have Brought Previously By-Passed Shales to Life”

**ABSTRACT;** Thin shale intervals with low porosity and low permeability have historically been unattractive as completion candidates. Horizontal drilling coupled with innovative completion strategies have allowed the industry to successfully connect with these formations. Optimization of fracturing fluids and treatments has enabled the industry to interconnect the wellbore with natural fracture systems. Microseismic analysis has been utilized to optimize the process. As a result, more than 20 fracs are routinely created in extended horizontal wellbores. This presentation will examine how this process has been applied in the Bakken Shale of the Williston Basin. The impact of this development will be discussed along with it’s potential in other similar situations.

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**Bio - Don Purvis**, Regional Technical Manager, Rocky Mountain Region, BJ Services. Don is currently the Rocky Mountain Region Technical Manager for BJ Services. He is responsible for the engineering efforts in a 9 state area including the Dakotas. He has 32 years of engineering experience in the oil industry. His previous positions include Engineering Training Manager, Mid-Continent Technical Manager, Research Scientist, and Technical Consultant. He has Authored 12 technical papers, and several technical journal articles. Don holds two patents including a method for stimulating horizontal wellbores in the Williston Basin. Don and his wife reside outside of Denver Colorado and have two grown sons.

BJ Services is a major supplier of oilfield services including fracturing, cementing, acidizing, coiled tubing and chemical services.

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### Corporate Sponsorships (2010-2011)

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## Wagner & Brown, Ltd.



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*“Non enim omnis error stultitia est dicenda”*

*Translation: We must not say every mistake is a foolish one.”— Marcus Tullius Cicero in De Divinatione II., 22, 79. In Thomas Benfield Harbottle, Dictionary of Quotations (classical) (3rd Ed., 1906), 169.*

*In matters of science, curiosity gratified begets not indolence, but new desires”*

—  
 Sir James Hutton, Theory of the Earth, Transactions of the Royal Society of Edinburgh, 1788, 1, 273.

## PBS-SEPM Digital Publication Project



### PBS-SEPM \*DIGITAL\* PUBLICATIONS ORDER FORM



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 Diablo's 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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Please send registration and payment information: PBS-SEPM, P.O. Box 1595, Midland, Texas 79702

For additional information **contact: PBS-SEPM office (432) 683-1573.**

## PBS-SEPM 'West Texas' 2011 Calendar



### PERMIAN BASIN SECTION SEPM 2011 Calendar PRE-ORDER FORM



The PBS-SEPM is pleased to offer its 8.5x11" (folds out to 11x17") geologic calendar for 2011. The calendar will feature west Texas scenery, icons of the oil patch, fossils, and minerals. Not only does each calendar purchase support the educational programs of PBS-SEPM, a non-profit organization, but a percentage of the calendar sales is dedicated to provide financial aid to full-time college students (geoscience majors) wanting to attend PBS-SEPM sponsored events. So each dollar spent not only helps PBS-SEPM continue to serve the professional geologic community with excellence, but also is an investment in the lives of future geosciences professionals as well.

#### Pre-Order Form for 2011 PBS-SEPM Calendar:

Member/Non-Member Price: **\$15.00** plus \$3.00 shipping and handling per calendar

Special Volume Discount: **'Buy 5, get 1 free'** [6 calendars for \$75.00 plus \$4.00 shipping & handling per bundle of 6]  
Calendars will be ready by September 15, 2010 and will be for sale at the WTGS Fall Symposium. For those that order prior to that date, the calendars can be picked up at the WTGS Fall Symposium booth or at the WTGS office unless there is a request for the calendars to be shipped.

QUANTITY: \_\_\_\_\_ **PICK UP: PBS-SEPM Office (Y/N)** \_\_\_\_\_  
**WTGS - PBS-SEPM Fall Symposium Booth (Y/N)** \_\_\_\_\_

Sub-Total: \$ \_\_\_\_\_

SHIPPING: \$ \_\_\_\_\_ [\$3.00 per calendar or \$4.00 per bundle of 6 - N/A if calendars personally picked up]

TOTAL: \$ \_\_\_\_\_

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Order forms/payment may be mailed to: PBS-SEPM, P.O. Box 1595, Midland, Texas 79702. Phone (432) 683-1573.



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**We're on the Web!**  
[www.pbs-sepm.org](http://www.pbs-sepm.org)

**“You can’t dig a  
new hole by  
digging the same  
one deeper”**,

Edward de Bono  
JPTechnology,  
March, 2010, p. 38  
The “same hole” refers to  
beliefs or work processes  
and a “new hole” refers to  
new ideas or concepts. This  
quotation alludes to  
psychological inertia that  
tells us to stay in the hole  
that we are digging since  
“how can we possibly let it  
go to waste?”

In our fast paced world it  
can seem more acceptable  
to continue digging the same  
hole than be seen “sitting  
back” considering where to  
dig next.

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.

Our non-profit society relies upon the efforts of dedicated volunteers to serve the geological community—primarily through educational events. These events include monthly luncheon talks, core workshops, annual field trips, and special geological publications. Thanks to our Education Committee we are involved in MISD 5th grade geology presentations to interest elementary students in pursuing a career in geosciences. We would like to increase our exposure on college campuses—reaching out to future earth scientists through scholarships, discounted memberships, and offering full-time geology students the ability to participate in professional-grade field trips at little to no cost.

If you would like to join PBS-SEPM, you may visit our website ([www.pbs-sepm.org](http://www.pbs-sepm.org)) to learn more about us, discover how to get involved and download a membership form.

### Individual Sponsors of PBS-SEPM ( 2009-2010)

Individual sponsors are advertised on the PBS-SEPM website and each Newsletter. Cost is \$85/year. If you are interested in an individual sponsorship opportunity, please call Paula Mitchell for more details at (432) 683-1573.



Microsoft Office online clip art. “ Boom to Bust” search

### **Your Business Card Could be here**

Your card will be in every newsletter for one year June to May, on the Website, the Power Point shown prior to every luncheon and in the calendar credits.

## PBS-SEPM Core Repository Location Project

### We Need Your Assistance !

Now we need your help. What do you do when you need to find a core? Do you know of any repositories that aren't in the list below ? Do you know what your employer or other operators have done or plan to do with their core? Please contribute any such information to this effort by contacting the committee: David M. Orchard, Chair, [david.m.orchard@conocophillips.com](mailto:david.m.orchard@conocophillips.com), 832-486-2314; Dr. Emily Stoudt, [stoudt\\_e@utpb.edu](mailto:stoudt_e@utpb.edu), 432-552-2244; and Andrew Parker, [andrew.parker@whiting.com](mailto:andrew.parker@whiting.com), 432-686-6784 office.

The following lists of portals and core repository facilities represent our first compilation

#### PORTALS TO INFORMATION

**PTTC** has a portal to the holdings of several public repositories. You can sort by repository and display their holdings in map view. <http://inside.mines.edu/Research/PTTC/Core%20Locator/>

**AGI** has a list of repositories of various geologic data, including cores. It provides contact information and accesses data through a map interface. <http://www.agiweb.org/ngdrs/overview/datadirectory.html>

Tony Troutman's website <http://www.carbonates.us/cores.htm> has a list of storage sites, including several state repositories.

#### PUBLIC AND COMMERCIAL STORAGE FACILITIES

The **USGS** has a storage facility in Denver that has Permian Basin material. Their collection can be searched online at <http://geology.cr.usgs.gov/crc/>. 303-202-4851.

The **Bureau of Economic Geology (BEG)** holds Permian Basin cores in their Midland, Houston, and Austin facilities. See <http://www.beg.utexas.edu/facilities.php> for information and contacts. Their catalog is called **IGOR** which has a link on above address. IGOR will be replaced soon by a more advanced database.

**New Mexico Bureau of Geology and Mineral Resources** has Permian Basin cores in Socorro. Request a list of the collection at <http://geoinfo.nmt.edu/libraries/subsurface/home.html>

**CEED** (Center for Energy and Economic Diversification) at **UT Permian Basin** (<http://ceed.utpb.edu/>) has Texas and New Mexico cores. 432-552-2020.

The **International Sample Library at Midland** has cores and core chips. Their collection is not in a database and must be searched through index cards. 707 Connell St, Midland, TX , 79701. 432-682-2682.