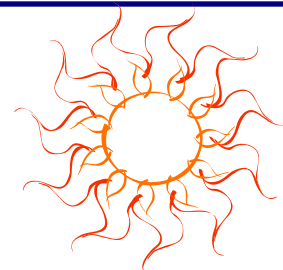




PBS-SEPM NEWSLETTER



May, 2011

PBS-SEPM 2010-2011

May 17: PBS-SEPM

Luncheon and Annual Meeting, 11:30 am,

Midland Center.

Speaker: Gregory M

Wahlman, Ph.D.

Topic: Stratigraphy and Significance of the New Global Pennsylvanian — Permian Boundary in the Permian Basin Region.

May 13-15, PBS-SEPM, Spring Field Trip entitled: Paleozoic mounds stratigraphic architecture in the Sacramento Mountains: implications for reservoir characterization.

Field Trip Leader:

Xavier Janson, Ph.D., BEG, Univ of Texas, Austin

June 9-12: PBS-SEPM Young Professionals and Intern Field Trip., Dr. Emily Stoudt and Dr. Robert Trentham, UTPB

Aug 2, PBS-SEPM Core Workshop, Midland Center, 11:30 Lunch. Geology of the Capitan Shelf Margin: The Gulf PDB-04 Core, Paul (Mitch) Harris, Chevron Energy Technology, San Ramon, CA

June 5-7, SWS AAPG, Annual Convention. Ruidoso, NM, "Renaissance of the Southwest: A Rendezvous in the Mountains. Go to the SWS website for more information. www.southwestsection.org

Gregory P. Wahlman— PBS-SEPM Luncheon Speaker

— Biography on page 2—

— Tuesday, May 17, 2011 —

—11:30 am, Midland Center, Midland, TX—

RSVP by 3 pm Monday, May 16th : 432-683-1573 or email: <wtgs@wtgs.org>

“Stratigraphy and Significance of the New Global Pennsylvanian-Permian Boundary in the Permian Basin Region” Abstract:

A new global Pennsylvanian-Permian boundary stratotype has been designated by the International Stratigraphic Commission in the type Permian region in the southern Ural Mountains of Kazakhstan. The conodont-based correlation of that chronostratigraphic boundary to Midcontinent North America has significantly elevated the traditional period boundary in the North American stratigraphic section. Exploration geologists need to be aware of the new position of this period boundary in order to make accurate and consistent applications of both old and new stratigraphic, sequence stratigraphic, biostratigraphic, paleogeographic data, and paleoclimatic data. In Permian Basin terminology, the Pennsylvanian-Permian boundary has essentially moved upsection from the base to the top of the so-called Bursum interval (= PW-I zone of Wilde, 1990), and so the

Stage	Substage	Glass Mts (South Margin)	Hueco Mts (West Diablo Platform)	Central Basin Platform	N-C Texas (Eastern Shelf)
Wolfcampian	Lenoxian	Leonard Fm	Leonard Fm	Leonard Fm	Leonard Fm
			Upper Alacran Mt Fm		Coleman Jct Ls
	Nealian	Lenox Hills Fm	Deer Mt Red Shale	Upper Hueco	Santa Anna Branch Sh
		Lenox Hills Cgl	Lower Alacran Mt Fm		Sedwick Fm
Virgilian	Nealian	Neal Ranch Fm	Cerro Alto Fm		Santa Anna Sh
			Hueco Canyon Ls	Lower Hueco	Gouldbusk Ls
	Virgilian		"Powwow Cgl"		Dothan (lbex) Ls
		Bed 2 of Gray Ls	Pseudoschwagerina Beds		Watts Creek Sh
Virgilian	Virgilian	Gaptank Fm	Unnamed Beds	Bursum	Camp Colorado Ls
			Bursum Beds		Salt Creek Bed Sh
	Virgilian		Magdalena Gr	Cisco	Stockwether Ls
					Camp Creek Sh
Virgilian	Virgilian				Saddle Creek Ls
					Waldrup Shale
	Virgilian				Harpersville Fm

(Wahlman 4-11 Draft)

Bursum interval is now considered to be latest Pennsylvanian. Stratigraphic aspects and exploration implications of the new period boundary will be discussed for the northern Midcontinent region, north-central Texas, Eastern Shelf, Midland Basin, Central Basin Platform, Hueco Mountains, and Glass Mountains. Throughout the Permian Basin region, the new Pennsylvanian-Permian boundary

interval is characterized by active collisional tectonics, a marked sea level lowstand, and a significant erosional unconformity. Early Wolfcampian (Nealian) sealevel highstands remained relatively low, but then sea levels generally increased through Late Wolfcampian (Lenoxian) and Leonardian time.

Bio—Permian Basin Section SEPM Speaker—May, 17, 2011

Gregory P. Wahlman, Ph.D., Wahlman Geological Services, LLC, Houston, TX

Professional Association: Wahlman Geological Services, LLC, Houston

Education:	BS	Indiana University	Year	1972
	MS	Indiana University	Year	1974
	PhD	University Of Cincinnati	Year	1979

Brief Summary of Professional Experience:

1974 – 1975: Texaco, New Orleans

– Exploration Geologist

1979 – 1999: Amoco, Houston

1979 – 1981 – Geologist (Permian Basin Enhanced Oil Recovery Division)

1981 – 1988 – Carbonate Sedimentologist & Biostratigrapher (E&P Technology Grp)

1988 – 1991 – Regional Stratigrapher (Africa and Middle East Region)

1991 – 1999 – Global Stratigraphy Program Coordinator, Carbonate

Sedimentologist and Biostratigrapher (E&P Technology Group)

1999 – 2009: BP Amoco and BP America

- Carbonate Sedimentologist (E&P Technology Group)

- Co-Leader of Global Carbonate Sedimentology Network

- Senior Advisory Group for Sedimentology-Stratigraphy

- Retired from BP, June, 2009

2009 – 2011: Wahlman Geological Services, LLC

“The voyage of discovery consists not in seeking new landscapes, but in having new eyes.”

Marcel Proust, French novelist (1871—1922)

Corporate Sponsorships (2010-2011)

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“There are grounds for cautious optimism that we may now be near the end of the search for the ultimate laws of Nature.”

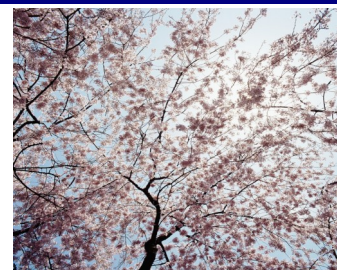
Stephen W. Hawking, 1988.

A Brief History of Time: From the Big Bang to the Black Holes.



President's Column

Teri McGuigan



On Tuesday, May 17, 2011 I will say adios to all of you at our annual luncheon, but only as your outgoing president of the PBS-SEPM. When publishing my first PBS-SEPM President's column in September, 2010, the price of west Texas intermediate crude was \$75.00/bbl for October delivery. As I leave office, the price has increased to \$104.00 /bbl for June delivery. We have all been very fortunate through this year as the oil patch in West Texas has kept each of us as busy as we want to be.

Despite the time crunch we have all been under, many have stepped forward to make this a very successful year for PBS-SEPM. The efforts our executive board members, committee chairs and volunteers have dedicated continue to allow the society to produce events that are beneficial to our geologic community.

I would like to share a few of the "behind the scenes" highlights that many of you may not be aware of. **Emily Stoudt** took the time and effort to put together a nice collection of fossils and minerals to be photographed for our 4th annual PBS-SEPM calendar. Of course the calendar would not have been possible without the beautiful photography work done by **Wendy Savage**, the efforts of **Brady**

Kolb lining up our generous calendar sponsors and **Cathie Party** putting on the final touches. **Robert Nail** has put a tremendous amount of effort into organizing what will be a rewarding field trip for many to the Sacramento Mountains with **Xavier Janson** kindly offering to lead the trip. PBS-SEPM continues to have great success in educating our up and coming star geologists, engineers and landmen through our Young Professionals and Intern Field Trip led by **Bob Trentham**, **Emily Stoudt**, **Robert Campbell** and **Chris Fling**. This annual field trip continues to be the most successful field trip in our society's history. **David Orchard** has taken on a tremendous effort in leading the Core Location Committee. The committee is still in the datagathering stages as they attempt to manage the huge amount of information that continues to mushroom. I believe one day, this committee will pull together a data base for core location that will be a giant benefit to our society members. **Mitch Harris** has graciously agreed to donate his time and valuable knowledge by putting on what I believe will be an outstanding core workshop this August. This will be a full-day core workshop on the Geology of the Capitan Shelf Margin as we examine 2500

feet of core from the Gulf PDB-04 well. The core workshop could not happen without **Wayne Helms**. Wayne will make an awesome contribution by handling the core for us. I would also like to give a very special thanks to our Executive Director **Paula Mitchell**. Without her support, I do not believe this society could exist. She has been a tremendous support to me the entire year and there is not enough I can do for her to adequately show my appreciation.

I am sure there are many more which I owe a great deal of gratitude. If I have missed anyone, a special thanks is directed your way.

I now look forward to handing gearshift over to Dave Thomas as incoming President of PBS-SEPM for the 2011-2012 term. I know, as I believe all of you do as well, that Dave and his executive board will do an outstanding job for the society in the forthcoming year.

Teri McGuigan

President, PBS-SEPM 2010-2011

<http://www.pbs-sepm.org>

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

President:	Teri McGuigan	tmcguigan1@suddenlink.net	770-7099
President Elect:	David M. Thomas	dthomas@tretyresources.net	570-6898
First Vice President	Robert Nail	Robert.Nail@whiting.com	688-1708
Second Vice President:	Wayne Helms	Wayne.helms@weatherfordlabs.com	684-8800
Treasurer:	Cindy E. Bowden	Cindy_bowden@kindermorgan.com	688-3785
Secretary:	James Hawkins	jhawkins@midland.oilfield.slb.com	571-4626
Executive Director:	Paula Mitchell	wtgs@wtgs.org	683-1573
Past—President	Fred H. Behnken	fred_behnken@kindermorgan.com	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!



"Nothing tends so much to the advancement of knowledge as the application of a new instrument".

*Sir Davy
Humphry*

*British inventor, chem-
ist and philosopher*

(1778—1829)

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

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corporate name within
the Permian Basin .**

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.



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our corporate
sponsors .
See page 3 for
additional
sponsors**

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

2011—2012 PBS-SEPM Executive Board Nominations

President Elect Nomination



Robert S. Nail, PhD
Sr. Geoscientist
Whiting Petroleum Corp.
Midland, TX 79701

Education: Ph.D., Geoscience, Texas Tech University; M.S., Geology, University of Texas at Arlington; B.S., Geoscience, Texas Tech University

Memberships: SEPM (National, Permian Basin Section, Gulf Coast Section); AAPG; West Texas Geological Society (WTGS); Houston Geological Society (HGS); North American Micropaleontology Section (NAMS); Geological Society of America (GSA)

Activities: PBS-SEPM - First VP (2010), Second VP (2009), Luncheon Speaker Chair (2008); WTGS – WTGS Fall Symposium Technical Co-Chair (2011), Website Chair (2007-present); SWSAAPG – Website Chair (2010-present); GCSSEPM – Website Chair (2000-2010); NAMS – Secretary (2002-2006)

1st Vice President Nomination



Robert Campbell
Consultant
Midland, Texas

Education: BS (1974) and MS(1976) Petroleum Engineering, University of Texas

Memberships: SEPM, WTGS, SPE, SPWLA

Activities: PBS-SEPM Young Professional Field Trip Mentor (2008-present)

2nd Vice President Nomination



Cindy E. Bowden
Geologist
Kinder Morgan Production Co., Inc.
Midland, Texas

Education: Odessa College, AS in Geology 1999, UTPB, BS in Geology 2005, UTPB, MS in Geology, 2010

Memberships: SEPM, AAPG, SEG, PBS-SEPM, WTGS

Activities: PBS-SEPM - Lunch Arrangements (2005-2008), Secretary (2009-2010), Treasurer (2010-2011); WTGS - Secretary (2006-2007), 2nd Vice President (2007-2008), Editor-in-Chief 2008-2010, WTGS Fall Symposium - Speaker's Judge 2003, Judges Chairman (2004-2006), Abstract Editor 2007, Editor 2008



***Remember to return your PBS-SEPM
Executive Committee Ballot
To the PBS-SEPM Office By May 15th!***

P.O. Box 1595
Midland, TX 79702-1595

2011—2012 PBS-SEPM Executive Board Nominations

Secretary Nominations



Sandra Elliott
Geologist
McClure Oil Company
Midland, Texas

Education: B.S. Geology 2003 Sul Ross State University
M.S. Geology 2009 Sul Ross State University
Memberships: PBS-SEPM, WTGS, GSA, AAPG
Activities: PBS-EPM Core Committee member 2011, President Geology Club, Sul Ross State University 2003, Vice President Geology Club Sul Ross State University 2002



Debrah S. Gann
Project Scientist / Task Manager / Geologist
Arcadis
Midland, TX

Education: BS Geology, University of Texas of the Permian Basin 1992; MS Geology, University of Texas of the Permian Basin, 2000; Texas Licensed Professional Geoscientist; Tennessee Registered Professional Geoscientist
Memberships: PBS-SEPM, WTGS, AAPG, AAPG-DEG, Business & Professional Women, NGWA, SPE-ESG
Activities: PBS-SEPM – 2nd Vice President (2007-2008), Treasurer (2008-2009); WTGS – Continuing Ed Chairman (2006-2009); AAPG / AAPG-DEG – Health & Safety Committee (2006-2008); AAPG SWS – DEG Advisory Board (2003-2004), Environmental Session Technical Committee and Moderator; Business & Professional Women – Community Projects Committee Chair (2010-2011), Woman of the Year (2010-2011), President (2009-2010), Corresponding Secretary (2006-2008), Communications Chair (2004-2009)
I like to take vacation as much as possible and read. I enjoy field trips when I can attend them and hiking when time allows.

Treasurer Nominations



Curtis D. Helms, Jr.
Geologist
Great Western Drilling Co
Midland, Texas

Education: M.S. Geology, The Univ. of Texas of the Permian Basin 2011
B.S. Biology The Univ. of Texas of the Permian Basin 2003
Memberships: AAPG, Energy Minerals Division of AAPG, WTGS, PBS-SEPM, FCGS, RMAG, Lions Club International-Farmington, New Mexico, NRA
Activities: Hunting, Skeet Shooting, Fishing, Hiking, Golfing, Riding Horses, anything outdoors



Wayne Helms
General Manager
Permian Basin Operations
Weatherford Laboratories
Midland, Texas

35 years of industry experience
Memberships: WTGS, PBS-SEPM, SPE
Activities: PBS-SEPM 2nd Vice President (2010-2011); Continued support to PBS-SEPM and WTGS by overseeing the rig up and rig down of core workshops



UPCOMING EVENT

PERMIAN BASIN SECTION SEPM

YOUNG PROFESSIONAL AND INTERN FIELD TRIP

June 9-12, 2011

- Four day multi-disciplined field trip in the Guadalupe Mountains for geology, engineering and land young professionals and interns
- Trip led by Dr. Emily Stoudt and Dr. Robert Trentham from The University of Texas of the Permian Basin, who have a combined 55 years of geological experience in research, development and production in the Permian Basin
- Robert Campbell and Chris Fling will provide mentoring support in engineering and land and have comparable years of Permian Basin experience in their respective professions
- Goal is to educate participants in combining outcrop data with industry exploration and production techniques in a multi-disciplined environment
- Participants will have opportunity to observe world-class outcrops of shelf to basin deposits that are direct analogues to producing fields in the Permian Basin
- Lectures covering geology of west Texas, carbonates, sequence stratigraphy, quick and simple log calculations and land practices
- Classroom exercises on general land practices, sequence stratigraphy, log correlation, seismic interpretation and production analysis
- Break out sessions specific to each discipline



Field studies



Classroom exercises



2010 Field Trip Participants

Participants will leave Midland, TX on June 9, travel to Carlsbad, NM, where they will stay at the Stevens Inn, and return to Midland, TX, the evening of June 12. Cost will be \$800.00 for single occupancy and \$700.00 for double occupancy. Included in the costs: round trip transportation from Midland, three nights lodging, three breakfasts, three lunches, refreshments in the field, guidebook and handouts.

WATCH pbs-sepm.org WEBSITE FOR UPDATES ON FIELD TRIP

Contact Information:

Paula Mitchell, Executive Director

PBS-SEPM, P. O. Box 1595, Midland, Texas 79702

e-mail: wtpgs@wtpgs.org

phone: (432) 683-1573

Fax (432) 686-7827



PERMIAN BASIN SECTION SEPM



YOUNG PROFESSIONAL AND INTERN FIELD TRIP

June 9-12, 2011

Registration Form

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Limited space is available, so the first to register will be given priority.

Cost (Please check your choice): Single \$800.00 () Double: \$700.00 ()

Discipline (Mark One) Geologist () Land Professional () Engineer ()

REGISTRATION FEE NON-REFUNDABLE AFTER JUNE 1, 2011

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For additional information contact: **PBS-SEPM Office (432) 683-1573 or Teri McGuigan (432) 770-7099**



Permian Basin Section-SEPM Core Workshop

Tuesday, August 2, 2011 – Midland Center, Midland, TX

Geology of the Capitan Shelf Margin: The Gulf PDB-04 Core

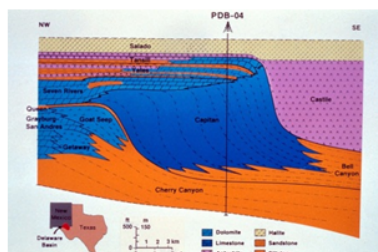
Presented by: Paul (Mitch) Harris, Chevron Energy Technology Company, San Ramon, CA

Registration Form

Outcrops in the Guadalupe Mountains of southeast New Mexico and West Texas superbly expose the Upper Permian (Upper Guadalupian) Capitan reef and its time-equivalent shelf and basinal strata. These outcrops have long been the focus of considerable research, which has led to several regional stratigraphic, sedimentologic, and diagenetic models that are used worldwide as analogs for various exploration and development plays, as well as the outcrops serving as an invaluable training ground for geologists and engineers alike.

Guided by the notion that the integration of subsurface and outcrop data can potentially show a much more complete geologic portrayal of the Capitan shelf margin than the outcrops alone and thereby further enhance the analog potential, Gulf Research and Development Company continuously cored and logged a stratigraphic well in 1984, the Gulf PDB-04 well, for the purpose of recovering a complete stratigraphic succession of the Capitan reef and its equivalent facies. This research core and well, first presented by Garber, Grover, and Harris in 1989 as an SEPM Core Workshop, provided an opportunity to better understand and refine outcrop-based concepts of stratigraphic relations, facies, diagenesis, and geologic development of the Capitan shelf margin. The core workshop was repeated in Midland (1990) and Calgary (1993), but has not been shown since!

The PDB-04 well is located in Eddy County, NM, at the northern end of the Delaware Basin, 19 miles (30 km) east-northeast of Carlsbad, which marks the northernmost extent of the same strata exposed in the Guadalupe Mountains. The research well continuously cored (from 510 to 5335 ft (155-1626 m) using a slim-hole wireline coring technique) and logged (using slim-hole logging tools) a complete stratigraphic sequence of the Capitan margin and its coeval shelf and basin strata.



The Capitan reef has time-equivalent shelf strata of, in ascending order, the Seven Rivers Fm, Yates Fm, and Tansill Fm, which consist of varied carbonate, evaporite, and siliciclastic lithologies. Coeval basinal strata of the Bell Canyon Fm are dominated by siltstone and sandstone, but five basinward-thinning carbonate-debris units - the Hegler through Lamar Limestone Mbrs - occur along the basin margin. Because of the highly prograding nature of the Capitan shelf margin, the PDB-04 core captured a complete sequence of shelf-to-basin facies similar to those found in outcrops to the west (e.g., McKittrick Canyon).

This PBS-SEPM Core Workshop is your chance to see this unique core, gain first-hand knowledge of what it added to our overall understanding of the Capitan shelf margin, and thereby better appreciate its potential as an analog for plays and reservoirs in mixed carbonate-clastic shelf systems, fractured reef margins, breccia-dominated steep slopes, and toe-of-slope to basin transitions. The core (from ~1400ft core depth to ~3900ft core depth = 2500ft of core) will be available to examine on Tuesday, August 2 in the Midland Center: 7:30am registration; 8:30-10:00am introductory lecture; 10:00am-12:00 noon core viewing; 12:00-1:00pm lunch; 1:00-3:30 pm core viewing. Registration includes a set of hardcopy workshop notes and two SEPM CD Publications.

Registration Fee: **PBS-SEPM Member: \$100.00 ()** **Non-Member: \$125.00 ()**
Student Fee: \$35.00 ()

REGISTRATION FEE NON-REFUNDABLE AFTER 5:00 P.M., JULY 22, 2011

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Credit card orders may be faxed to (432) 686-7827

For additional information contact: PBS-SEPM Office (432) 683-1573 or Teri McGuigan (432) 770-7099



Short Biography for Paul M. Harris

Paul M. (Mitch) Harris, a Senior Research Consultant and Chevron Fellow with Chevron Energy Technology Company in San Ramon, California, performs carbonate research, technical service projects, consulting, and training for the various operating units of Chevron. His career's work has centered on facies-related, stratigraphic, and diagenetic problems that pertain to carbonate reservoirs and exploration plays in most carbonate basins worldwide. Mitch received his B. S. and M. S. degrees from West Virginia University and Ph.D. from the University of Miami, Florida. He has published numerous papers, edited several books, and is active in AAPG and SEPM. He has been a Distinguished Lecturer and International Distinguished Lecturer for AAPG, received the Wallace E. Pratt Memorial Award for best original article published in the AAPG Bulletin in 1998, was awarded Honorary Membership from SEPM in 2002, received the Robert H. Dott, Sr. Memorial Award twice for best Memoirs published by AAPG in 2004 and again in 2006, and received the John W. Shelton Search & Discovery Award for best contribution to the AAPG Search and Discovery website in 2009. Mitch is also an adjunct faculty at the University of Miami and Rice University.

Paleozoic mounds stratigraphic architecture in the Sacramento Mountains: implication for reservoir characterizations

Dr. Xavier Janson

Reservoir Characterization Research Laboratory

Bureau of Economic Geology

University Of Texas at Austin

Pennsylvanian mounds



This two day trip will use the unique suite of carbonate outcrops in Sacramento Mountains to illustrate reservoir-scale stratal architecture and methodologies for interpreting these carbonate mounds geometries from contained facies. Two different platform style of mounds development will be visited. The Mississippian mounds grew on a wide low angle ramp below wave base and are dominated by aphotic to oligophotic biota, whereas the Virgilian algal mounds are dominated by euphotic biota that depends on light to grow and has a result are controlled not only by the hydrodynamic regime but also the water depth (accommodation). We will draw comparison with the subsurface data from the Horseshoe Atoll and in the Fort Worth Basin where these two types of mounds are present or at least suspected whenever possible. We will contrast the two stratigraphic architectures and discuss the applicability of these outcrop and outcrop-derived conceptual model to the isolated platform case in Horseshoe Atoll and Fort Worth Basin.



PBS-SEPM
P.O. Box 1595
Midland, TX 79702

Phone: 432-683-1573
Fax: 432-686-7827
E-mail: wtgs@wtgs.org

We're on the Web!
www.pbs-sepm.org

"When truth is evident, it is impossible for parties and factions to rise. There never has been a dispute as to whether there is daylight at noon. "

Francis Marie Arouet
de Voltaire,
(1694-1778)
French Writer 1764

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) to learn more about us, discover how to get involved and download a membership form.

Individual Sponsors of PBS-SEPM (2010-2011)

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.

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.



Summer is upon us, 'tis time to look at the rocks!